

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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

Lot No.: **2E1**

Lot-specific information
Olerup SSP[®] HLA-B*35

Product number:	101.522-24/03 – including <i>Taq</i> pol. 101.522-24u/03u – without <i>Taq</i> pol.
Lot number:	2E1
Expiry date:	2019-03-01
Number of tests:	24 tests – Product No. 101.522-24/24u 3 tests – Product No. 101.522-03/03u
Number of wells per test:	92+1
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 2E1.

Complete product documentation consists of generic Instructions for Use (IFU), lot specific Product Insert, Worksheet and Certificate.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®]
HLA-B*35 LOT (36Y)**

The HLA-B*35 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

Two wells have been added to HLA-B*35, wells **92 and 93**.

¹As described in section Uniquely Identified Alleles.

The HLA-B*35 primer set, specificity and interpretation tables have been updated for the HLA-B alleles described since the previous Olerup SSP[®] HLA-B*35 lot was made (**Lot No. 36Y**). The kit design is based on IMGT/HLA database 3.24.0

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

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

Well	5'-primer	3'-primer	rationale
10	-	Added	3'-primer added for the B*35:263 allele.
31	Added	-	5'-primer added for increased yield.
32	Modified	-	5'-primer modified for improved HLA-specific amplification.
38	Added	-	5'-primer added for the B*35:02:08 allele.
55	-	Added	3'-primer added for the B*35:263 allele.
73	Added	-	5'-primer added for the B*35:02:08 allele.
74	-	Added	3'-primer added for the B*35:281 allele.
76	Added	-	5'-primer added for the B*35:271 allele.
81	-	Added	3'-primer added for the B*35:293 allele.
86	-	Modified	3'-primer modified for increased yield.
91	Added	Added	Updated negative control moved to well 93, primer pair added for the B*35:262 allele.
92	New	New	New primer pair added for the B*35:298 allele.
93	-	-	Updated negative control added from well 91.

Change in revision R01 compared to R00:

1. Primer mix 24 does amplify the B*52:28 allele. Primer mix 37 does not amplify the C*03:102 allele. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. Primer mix 37 amplifies the B*35:291 and the B*54:16 and B*55:46 alleles. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R03 compared to R02:

1. Primer mix 86 weakly amplifies the B*44:02:10, 44:06, 44:34:01, B*51:42 and B*51:56:01 alleles. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R04 compared to R03:

1. Primer mix 53 weakly amplifies the B*35:129N allele. This has been corrected in the Specificity and Interpretation Tables.

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Well **93** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup* SSP[®] HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

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

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

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

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

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Lot No.: **2E1**

Lot-specific information

PRODUCT DESCRIPTION

HLA-B*35 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*35:01 to B*35:314 alleles.

PLATE LAYOUT

Each test consists of 93 PCR reactions in a 96 well cut PCR plate. Wells 94 to 96 are empty.

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	NC	empty	empty	empty

The 96 well cut PCR plate is marked with 'HLA-B*35' in silver/gray ink.

Well No. 1 is marked with the Lot No. '2E1'.

Wells 1 to 92 – HLA-B*35 high resolution primers.

Well 93 – Negative Control (NC).

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded. The PCR plates are covered with a PCR-compatible foil.

INTERPRETATION

Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B*35 alleles will be amplified by primer mixes 1 to 41, 43 to 51, 54 to 56, 58, 59, 61, 67 to 70, 72 to 76, 79, 81, 83, 85, 86 and 88 to 92. In addition, a few HLA-A and HLA-C alleles will be amplified by primer mixes 2, 3, 10, 11, 14, 15, 18 to 20, 22, 23, 28 to 32, 34, 36, 37, 39, 43, 47, 58, 61 to 63, 68, 73, 76, 85, 89 and 91.

For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*35 alleles, i.e. **B*35:01 to B*35:314**, recognized by the HLA Nomenclature Committee in April 2016^{1,2} will be amplified by the primers in the HLA-B*35 subtyping kit.

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Lot-specific information

The HLA-B*35 kit enables separation of the confirmed HLA-B*35 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*35 alleles is listed below.

The HLA-B*35 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

The following HLA-B*35 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix
B*35:122, 35:123	61
B*35:130N, 35:134N	64
B*35:132, 35:144	62
B*35:219, 35:293	81

The HLA-B*35 subtyping kit cannot distinguish the following silent mutations: the B*35:01:01:01-35:01:03, 35:01:05-35:01:16, 35:01:18-35:01:22, 35:01:24-35:01:27, 35:01:29-35:01:33, 35:01:36-35:01:41 and 35:01:44-35:01:45, the B*35:02:01-35:02:08, the B*35:03:01, 35:03:03-35:03:06, 35:03:08-35:03:10, 35:03:13-35:03:16 and 35:03:19-35:03:21, the B*35:03:12 and 35:03:18, the B*35:04:01-35:04:02, the B*35:05:01-35:05:03, the B*35:08:01-35:08:02, 35:08:04 and 35:08:06-35:08:08, the B*35:09:02-35:09:03, the B*35:11:01 and B*35:11:03, the B*35:12:01-35:12:03, the 35:15:01 and 35:15:02, the 35:17:01-35:17:02, the B*35:20:01-35:20:02, the B*35:24:01-35:24:02, the B*35:29:01-35:29:02, the B*35:32:01-35:32:02, the 35:59:01-35:59:02, the B*35:101:01-35:101:02, the B*35:108:01-35:108:02 or the B*35:150:01-35:150:02 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2016-April-15, release 3.24.0, www.ebi.ac.uk/imgt/hla.

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

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ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
B*35:01:01:01	Confirmed	B*35:02:04	Unconfirmed	B*35:12:02	Unconfirmed	B*35:53N	Unconfirmed
B*35:01:01:02	Confirmed	B*35:02:05	Unconfirmed	B*35:12:03	Unconfirmed	B*35:54	Unconfirmed
B*35:01:01:03	Unconfirmed	B*35:02:06	Unconfirmed	B*35:13	Confirmed	B*35:55	Confirmed
B*35:01:02	Unconfirmed	B*35:02:07	Unconfirmed	B*35:14:01	Confirmed	B*35:56	Unconfirmed
B*35:01:03	Unconfirmed	B*35:02:08	Unconfirmed	B*35:14:02	Unconfirmed	B*35:57	Confirmed
B*35:01:04	Confirmed	B*35:03:01	Confirmed	B*35:15:01	Confirmed	B*35:58	Confirmed
B*35:01:05	Confirmed	B*35:03:02	Unconfirmed	B*35:15:02	Unconfirmed	B*35:59:01	Confirmed
B*35:01:06	Unconfirmed	B*35:03:03	Unconfirmed	B*35:16	Confirmed	B*35:59:02	Unconfirmed
B*35:01:07	Confirmed	B*35:03:04	Unconfirmed	B*35:17:01	Confirmed	B*35:60	Unconfirmed
B*35:01:08	Unconfirmed	B*35:03:05	Unconfirmed	B*35:17:02	Confirmed	B*35:61:01	Confirmed
B*35:01:09	Confirmed	B*35:03:06	Unconfirmed	B*35:18	Unconfirmed	B*35:61:02	Unconfirmed
B*35:01:10	Unconfirmed	B*35:03:07	Unconfirmed	B*35:19	Confirmed	B*35:62	Confirmed
B*35:01:11	Confirmed	B*35:03:08	Unconfirmed	B*35:20:01	Confirmed	B*35:63	Unconfirmed
B*35:01:12	Unconfirmed	B*35:03:09	Unconfirmed	B*35:20:02	Confirmed	B*35:64:01	Confirmed
B*35:01:13	Unconfirmed	B*35:03:10	Unconfirmed	B*35:21	Confirmed	B*35:64:02	Unconfirmed
B*35:01:14	Unconfirmed	B*35:03:11	Confirmed	B*35:22	Confirmed	B*35:65Q	Confirmed
B*35:01:15	Confirmed	B*35:03:12	Unconfirmed	B*35:23	Confirmed	B*35:66	Unconfirmed
B*35:01:16	Unconfirmed	B*35:03:13	Unconfirmed	B*35:24:01	Confirmed	B*35:67	Unconfirmed
B*35:01:17	Confirmed	B*35:03:14	Unconfirmed	B*35:24:02	Confirmed	B*35:68:01	Unconfirmed
B*35:01:18	Unconfirmed	B*35:03:15	Unconfirmed	B*35:25	Unconfirmed	B*35:68:02	Confirmed
B*35:01:19	Confirmed	B*35:03:16	Unconfirmed	B*35:26	Confirmed	B*35:69	Unconfirmed
B*35:01:20	Unconfirmed	B*35:03:17	Unconfirmed	B*35:27	Unconfirmed	B*35:70	Unconfirmed
B*35:01:21	Unconfirmed	B*35:03:18	Unconfirmed	B*35:28	Confirmed	B*35:71	Unconfirmed
B*35:01:22	Unconfirmed	B*35:03:19	Unconfirmed	B*35:29:01	Confirmed	B*35:72	Confirmed
B*35:01:23	Confirmed	B*35:03:20	Unconfirmed	B*35:29:02	Unconfirmed	B*35:74	Confirmed
B*35:01:24	Unconfirmed	B*35:03:21	Unconfirmed	B*35:30	Confirmed	B*35:75	Unconfirmed
B*35:01:25	Unconfirmed	B*35:04:01	Confirmed	B*35:31	Confirmed	B*35:76	Unconfirmed
B*35:01:26	Unconfirmed	B*35:04:02	Confirmed	B*35:32:01	Confirmed	B*35:77	Confirmed
B*35:01:27	Confirmed	B*35:04:03	Unconfirmed	B*35:32:02	Unconfirmed	B*35:78	Unconfirmed
B*35:01:28	Unconfirmed	B*35:05:01	Confirmed	B*35:33	Confirmed	B*35:79	Unconfirmed
B*35:01:29	Confirmed	B*35:05:02	Confirmed	B*35:34	Confirmed	B*35:80	Unconfirmed
B*35:01:30	Unconfirmed	B*35:05:03	Unconfirmed	B*35:35	Confirmed	B*35:81	Confirmed
B*35:01:31	Unconfirmed	B*35:06	Confirmed	B*35:36	Unconfirmed	B*35:82	Unconfirmed
B*35:01:32	Unconfirmed	B*35:07	Unconfirmed	B*35:37	Confirmed	B*35:83	Unconfirmed
B*35:01:33	Unconfirmed	B*35:08:01	Confirmed	B*35:38	Confirmed	B*35:84	Unconfirmed
B*35:01:34	Unconfirmed	B*35:08:02	Confirmed	B*35:39	Unconfirmed	B*35:85	Unconfirmed
B*35:01:35	Confirmed	B*35:08:03	Unconfirmed	B*35:40N	Unconfirmed	B*35:86	Unconfirmed
B*35:01:36	Unconfirmed	B*35:08:04	Confirmed	B*35:41	Confirmed	B*35:87	Confirmed
B*35:01:37	Unconfirmed	B*35:08:05	Unconfirmed	B*35:42:01	Confirmed	B*35:88	Unconfirmed
B*35:01:38	Unconfirmed	B*35:08:06	Unconfirmed	B*35:42:02	Unconfirmed	B*35:89	Unconfirmed
B*35:01:39	Unconfirmed	B*35:08:07	Confirmed	B*35:43:01	Confirmed	B*35:90	Unconfirmed
B*35:01:40	Unconfirmed	B*35:08:08	Confirmed	B*35:44	Unconfirmed	B*35:91	Unconfirmed
B*35:01:41	Unconfirmed	B*35:09:01	Confirmed	B*35:45	Unconfirmed	B*35:92	Unconfirmed
B*35:01:42	Unconfirmed	B*35:09:02	Unconfirmed	B*35:46	Unconfirmed	B*35:93	Unconfirmed
B*35:01:43	Unconfirmed	B*35:09:03	Confirmed	B*35:47	Confirmed	B*35:94	Unconfirmed
B*35:01:44	Unconfirmed	B*35:10	Confirmed	B*35:48	Confirmed	B*35:95	Confirmed
B*35:01:45	Unconfirmed	B*35:11:01	Confirmed	B*35:49	Confirmed	B*35:96	Confirmed
B*35:02:01	Confirmed	B*35:11:02	Unconfirmed	B*35:50	Unconfirmed	B*35:97	Confirmed
B*35:02:02	Confirmed	B*35:11:03	Confirmed	B*35:51	Unconfirmed	B*35:98	Confirmed
B*35:02:03	Unconfirmed	B*35:12:01	Confirmed	B*35:52	Unconfirmed	B*35:99	Confirmed

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Lot-specific information

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
B*35:100	Confirmed	B*35:148	Confirmed	B*35:197	Unconfirmed	B*35:247	Unconfirmed
B*35:101:01	Confirmed	B*35:149	Confirmed	B*35:198	Unconfirmed	B*35:248	Unconfirmed
B*35:101:02	Unconfirmed	B*35:150:01	Unconfirmed	B*35:199	Unconfirmed	B*35:249	Unconfirmed
B*35:102	Unconfirmed	B*35:150:02	Unconfirmed	B*35:200	Confirmed	B*35:250	Unconfirmed
B*35:103	Confirmed	B*35:151	Unconfirmed	B*35:201	Unconfirmed	B*35:251	Unconfirmed
B*35:104	Confirmed	B*35:152	Unconfirmed	B*35:202	Unconfirmed	B*35:252	Unconfirmed
B*35:105	Confirmed	B*35:153	Unconfirmed	B*35:203	Unconfirmed	B*35:253	Unconfirmed
B*35:106	Confirmed	B*35:154	Unconfirmed	B*35:204	Unconfirmed	B*35:254	Unconfirmed
B*35:107	Unconfirmed	B*35:155	Unconfirmed	B*35:205	Unconfirmed	B*35:255	Unconfirmed
B*35:108:01	Confirmed	B*35:156	Unconfirmed	B*35:206	Unconfirmed	B*35:256	Unconfirmed
B*35:108:02	Confirmed	B*35:157	Confirmed	B*35:207	Unconfirmed	B*35:257	Unconfirmed
B*35:109	Unconfirmed	B*35:158	Confirmed	B*35:208	Unconfirmed	B*35:258	Unconfirmed
B*35:110	Unconfirmed	B*35:159	Unconfirmed	B*35:209	Unconfirmed	B*35:259	Confirmed
B*35:111	Unconfirmed	B*35:160	Unconfirmed	B*35:210	Confirmed	B*35:260	Unconfirmed
B*35:112	Confirmed	B*35:161	Unconfirmed	B*35:211	Unconfirmed	B*35:261	Unconfirmed
B*35:113	Confirmed	B*35:162	Unconfirmed	B*35:212	Unconfirmed	B*35:262	Confirmed
B*35:114	Unconfirmed	B*35:163	Confirmed	B*35:213	Unconfirmed	B*35:263	Confirmed
B*35:115	Confirmed	B*35:164	Unconfirmed	B*35:214	Confirmed	B*35:264	Unconfirmed
B*35:116	Confirmed	B*35:165N	Unconfirmed	B*35:215	Unconfirmed	B*35:265	Unconfirmed
B*35:117	Confirmed	B*35:166	Unconfirmed	B*35:216N	Unconfirmed	B*35:266	Unconfirmed
B*35:118	Unconfirmed	B*35:167	Confirmed	B*35:217	Confirmed	B*35:267	Unconfirmed
B*35:119	Unconfirmed	B*35:168	Unconfirmed	B*35:218	Unconfirmed	B*35:268	Unconfirmed
B*35:120	Confirmed	B*35:169	Confirmed	B*35:219	Confirmed	B*35:269	Unconfirmed
B*35:121	Confirmed	B*35:170	Unconfirmed	B*35:220	Unconfirmed	B*35:270	Confirmed
B*35:122	Unconfirmed	B*35:171	Unconfirmed	B*35:221	Unconfirmed	B*35:271	Confirmed
B*35:123	Unconfirmed	B*35:172	Unconfirmed	B*35:222	Unconfirmed	B*35:272	Unconfirmed
B*35:124	Confirmed	B*35:173N	Unconfirmed	B*35:223	Unconfirmed	B*35:273	Unconfirmed
B*35:125	Unconfirmed	B*35:174	Confirmed	B*35:224	Unconfirmed	B*35:274	Confirmed
B*35:126	Confirmed	B*35:175	Unconfirmed	B*35:225	Confirmed	B*35:275	Unconfirmed
B*35:127	Unconfirmed	B*35:176	Confirmed	B*35:226	Unconfirmed	B*35:276	Confirmed
B*35:128	Confirmed	B*35:177	Unconfirmed	B*35:227	Confirmed	B*35:277	Unconfirmed
B*35:129N	Unconfirmed	B*35:178	Unconfirmed	B*35:228	Confirmed	B*35:278	Confirmed
B*35:130N	Unconfirmed	B*35:179	Unconfirmed	B*35:229	Unconfirmed	B*35:279	Unconfirmed
B*35:131	Unconfirmed	B*35:180	Unconfirmed	B*35:230	Confirmed	B*35:280	Unconfirmed
B*35:132	Confirmed	B*35:181	Unconfirmed	B*35:231	Unconfirmed	B*35:281	Confirmed
B*35:133	Unconfirmed	B*35:182	Confirmed	B*35:232	Unconfirmed	B*35:282	Unconfirmed
B*35:134N	Unconfirmed	B*35:183	Unconfirmed	B*35:233	Confirmed	B*35:283	Unconfirmed
B*35:135	Unconfirmed	B*35:184	Unconfirmed	B*35:234	Unconfirmed	B*35:284	Unconfirmed
B*35:136	Confirmed	B*35:185	Unconfirmed	B*35:235	Unconfirmed	B*35:285	Unconfirmed
B*35:137	Confirmed	B*35:186	Unconfirmed	B*35:236	Unconfirmed	B*35:286	Unconfirmed
B*35:138	Unconfirmed	B*35:187	Unconfirmed	B*35:237	Unconfirmed	B*35:287	Unconfirmed
B*35:139	Unconfirmed	B*35:188	Unconfirmed	B*35:238	Unconfirmed	B*35:288	Unconfirmed
B*35:140	Unconfirmed	B*35:189	Unconfirmed	B*35:239	Unconfirmed	B*35:289	Unconfirmed
B*35:141	Confirmed	B*35:190	Unconfirmed	B*35:240	Unconfirmed	B*35:290	Unconfirmed
B*35:142	Unconfirmed	B*35:191	Confirmed	B*35:241	Unconfirmed	B*35:291	Unconfirmed
B*35:143	Unconfirmed	B*35:192	Unconfirmed	B*35:242	Unconfirmed	B*35:292	Unconfirmed
B*35:144	Confirmed	B*35:193	Confirmed	B*35:243	Unconfirmed	B*35:293	Confirmed
B*35:145N	Unconfirmed	B*35:194	Confirmed	B*35:244	Unconfirmed	B*35:294	Unconfirmed
B*35:146	Unconfirmed	B*35:195	Unconfirmed	B*35:245	Unconfirmed	B*35:295	Unconfirmed
B*35:147	Unconfirmed	B*35:196	Unconfirmed	B*35:246	Unconfirmed	B*35:296	Confirmed

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Lot-specific information

Allele	Status ¹	Allele	Status ¹
B*35:297	Unconfirmed	B*35:307	Unconfirmed
B*35:298	Unconfirmed	B*35:308	Unconfirmed
B*35:299	Unconfirmed	B*35:309	Unconfirmed
B*35:300	Unconfirmed	B*35:310	Unconfirmed
B*35:301	Unconfirmed	B*35:311	Unconfirmed
B*35:302	Unconfirmed	B*35:312	Unconfirmed
B*35:303	Unconfirmed	B*35:313	Unconfirmed
B*35:304	Unconfirmed	B*35:314	Unconfirmed
B*35:305	Unconfirmed		
B*35:306	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2016-April-15, release 3.24.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-B*35 homo- and heterozygotes is available upon request.

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Lot-specific information
SPECIFICITY TABLE

HLA-B*35 SSP subtyping

Specificities and sizes of the PCR products of the 92+1 primer mixes used for
 HLA-B*35 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*35 alleles ³	Other amplified Class I alleles ⁴
1 ⁵	95 bp	800 bp	*35:01:01:01-35:09:03, 35:11:01-35:12:03, 35:14:01-35:15:02, 35:17:01-35:18, 35:20:01-35:24:02, 35:27, 35:29:01-35:45, 35:48, 35:50-35:62, 35:64:01-35:68:02, 35:70-35:72, 35:74-35:75, 35:77-35:79, 35:81-35:153, 35:155-35:185, 35:187-35:190, 35:192-35:197, 35:199-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:225, 35:227-35:253, 35:255-35:269, 35:272-35:273, 35:275-35:310, 35:312-35:314	*08:32, 08:133, 15:308, 18:01:01:01-18:11, 18:13-18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:65, 18:67-18:106, 18:108-18:120, 37:08, 38:06-38:07, 39:19:01-39:19:02, 44:06, 51:01:01:01-51:01:10, 51:01:12-51:24:05, 51:26-51:46, 51:48-51:103, 51:105-51:111, 51:113-51:117, 51:119-51:146, 51:148-51:202, 53:01:01-53:16, 53:18-53:27, 53:29, 53:31-53:37, 53:40-53:41, 56:45 ^w , 78:01:01-78:04, 78:07-78:09
2	150 bp	1070 bp	*35:01:01:01-35:04:03, 35:06-35:08:08, 35:10-35:17:02, 35:19-35:21, 35:23-35:30, 35:33-35:36, 35:38-35:42:02, 35:45-35:50, 35:52, 35:54-35:57, 35:59:01-35:59:02, 35:61:01-35:63, 35:65Q, 35:69-35:71, 35:74, 35:76-35:78, 35:80-35:85, 35:90-35:96, 35:98, 35:100-35:101:02, 35:103-35:113, 35:115-35:116, 35:120-35:126, 35:128-35:134N, 35:136-35:150:02, 35:152-	*07:235, 08:49, 13:01:01-13:01:12, 13:06-13:07N, 13:12:01-13:13:02, 13:17, 13:20, 13:22:01-13:23, 13:25-13:26:02, 13:28-13:29, 13:36, 13:39, 13:43, 13:50-13:52, 13:57, 13:60-13:61, 13:63N, 13:73, 13:76N-13:80, 13:83, 13:86-13:87, 13:90, 14:10, 15:02:01-15:02:11, 15:13:01-15:13:02, 15:20-15:21, 15:25:01-15:25:03, 15:36, 15:44, 15:62, 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, 15:250, 15:265, 15:271, 15:283, 15:289, 15:291, 15:297, 15:301-15:302N, 15:308, 15:319, 15:325, 15:328, 15:330, 15:341, 15:345, 15:357-15:358, 15:366, 15:374, 15:378, 18:22, 18:69, 18:105, 27:19, 27:30, 27:127, 37:01:01-37:01:07, 37:01:09, 37:01:11, 37:03N-37:06:02, 37:08, 37:10-37:11, 37:13-37:43, 37:45-37:50, 37:52-37:57, 38:20, 39:42, 40:28, 44:02:01:01-44:02:33, 44:02:35-44:14, 44:16-44:17, 44:19N, 44:21-44:30, 44:32-44:40, 44:42-44:46, 44:48-44:52N, 44:55-44:64:02, 44:66-44:98, 44:101-44:105, 44:107-44:134,

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4	280 bp	1070 bp	*35:01:01:01- 35:01:45, 35:05:01- 35:05:03, 35:07- 35:08:08, 35:10- 35:11:03, 35:14:01- 35:17:02, 35:19- 35:21, 35:23-35:30, 35:32:01-35:32:02, 35:35, 35:37, 35:40N-35:43:01, 35:45-35:54, 35:57- 35:58, 35:61:01- 35:64:02, 35:66-35:69, 35:71- 35:72, 35:76-35:80, 35:82, 35:86, 35:89- 35:94, 35:97, 35:99- 35:105, 35:107- 35:108:02, 35:110- 35:126, 35:130N- 35:135, 35:137- 35:148, 35:158- 35:159, 35:161, 35:165N-35:166, 35:168, 35:170- 35:171, 35:173N- 35:178, 35:180, 35:185-35:192, 35:194, 35:196- 35:197, 35:200, 35:202-35:203, 35:206-35:210, 35:212, 35:215- 35:219, 35:222, 35:224-35:229, 35:232, 35:238- 35:241, 35:244- 35:245, 35:247- 35:250, 35:252- 35:255, 35:259- 35:260, 35:262- 35:265, 35:268- 35:269, 35:271- 35:272, 35:275, 35:277, 35:280, 35:283-35:284, 35:286-35:289,	*07:09, 07:11, 07:17, 07:162, 07:235, 07:237, 07:255, 08:28, 08:35, 08:37, 08:89, 08:107, 13:04, 13:10, 13:26:01-13:26:02, 13:72, 15:01:01:01- 15:01:04, 15:01:06-15:08:02, 15:11:01-15:16:03, 15:18:01-15:21, 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, 15:64:01-15:72, 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, 15:197:01-15:207, 15:209N- 15:215, 15:217-15:223, 15:225-15:228, 15:231- 15:232, 15:234-15:242, 15:244-15:247, 15:249- 15:251, 15:254-15:268, 15:270-15:272N, 15:274- 15:286, 15:288-15:302N, 15:304N-15:311, 15:314- 15:322, 15:325-15:328, 15:330-15:333, 15:335- 15:337, 15:340-15:341, 15:343-15:355, 15:357- 15:360, 15:362-15:383, 18:01:01:01-18:15, 18:17N-18:25, 18:27-18:40, 18:42-18:60, 18:62- 18:120, 27:41, 27:107, 37:35, 37:56, 38:52, 39:07, 39:43, 39:91, 40:03, 40:20, 40:38, 40:52, 40:59- 40:60, 40:105, 40:158-40:159, 40:222, 40:267, 40:284, 41:24, 41:30, 42:09, 44:17, 44:43:01- 44:43:02, 44:144, 44:230, 45:09, 46:01:01-46:10, 46:12-46:17, 46:19-46:60, 46:62-46:66, 48:02:01- 48:02:03, 48:14, 48:23, 48:25, 49:04:01-49:05, 50:33, 51:37, 51:45, 51:63, 51:97, 52:39, 53:01:01- 53:03, 53:05-53:06, 53:08:01-53:18, 53:20-53:30, 53:32, 53:34-53:35, 53:37-53:41, 54:06, 54:09, 54:14, 55:14, 55:23, 55:32, 55:68, 56:03, 56:09, 56:18, 56:31-56:32, 56:50, 57:01:01-57:01:22, 57:06, 57:08, 57:10-57:11, 57:13-57:16, 57:18- 57:27, 57:29-57:31, 57:33-57:38, 57:40-57:41, 57:43-57:45, 57:47-57:56, 57:58-57:62, 57:64- 57:65, 57:67:01-57:69, 57:71-57:75, 57:77-57:79N, 57:81, 57:83, 58:01:01:01-58:02:02, 58:04-58:07, 58:09-58:19, 58:21-58:26, 58:29, 58:31N-58:33, 58:35-58:64, 58:66-58:72N, 58:74-58:78

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5	290 bp	800 bp	*35:02:01-35:02:08, 35:04:01-35:04:03, 35:06, 35:09:01- 35:09:03, 35:12:01- 35:12:03, 35:18, 35:22, 35:31, 35:44, 35:59:01-35:60, 35:81, 35:83, 35:87- 35:88, 35:95, 35:129N, 35:146, 35:149, 35:154, 35:157, 35:162, 35:164, 35:172, 35:182-35:184, 35:201, 35:211, 35:220, 35:230, 35:233, 35:251, 35:258, 35:266, 35:270, 35:273, 35:276, 35:285, 35:292, 35:309, 35:311	*07:05:01-07:06:02, 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, 07:176, 07:182N, 07:201N, 07:206-07:207, 07:209-07:210, 07:213- 07:214, 07:222, 07:225, 07:249, 07:258, 07:262, 07:264, 08:01:01-08:01:22, 08:01:24-08:05, 08:08N-08:13, 08:15-08:27, 08:29-08:36, 08:38- 08:48, 08:50-08:73, 08:75-08:86N, 08:88, 08:90- 08:106, 08:108-08:110, 08:112-08:155, 08:157- 08:161, 13:01:01-13:01:02, 13:01:04-13:02:16, 13:02:18-13:03, 13:06-13:09, 13:11-13:23, 13:25, 13:27-13:33, 13:36-13:45, 13:47-13:50, 13:52- 13:71, 13:73-13:78, 13:80-13:91, 14:13, 14:53, 15:09, 15:30, 15:42, 15:48, 15:58, 15:73, 15:83, 15:86, 15:150, 15:188, 15:224, 15:229, 15:243, 15:252, 15:303, 15:324, 15:329, 15:361, 18:26, 18:61, 18:97, 27:07:01-27:07:05, 27:11, 27:20, 27:24, 27:27, 27:33, 27:43, 27:125, 27:130, 37:12, 38:01:01, 38:01:03-38:02:05, 38:02:07-38:21, 38:23-38:28, 38:30-38:51, 38:53-38:61, 39:01:01:01-39:01:01:04, 39:01:03-39:01:18, 39:01:20-39:06:05, 39:08-39:14, 39:16, 39:18- 39:20, 39:22-39:24:02, 39:26-39:28, 39:30-39:42, 39:44-39:48, 39:50-39:54, 39:56-39:90, 39:92- 39:95N, 39:97N-39:108, 39:109 ^w , 39:110-39:116N, 40:01:01-40:01:25, 40:01:27-40:01:31, 40:01:33- 40:02:09, 40:02:11-40:02:17, 40:02:19-40:02:25, 40:04-40:06:09, 40:06:11-40:08, 40:10:01:01- 40:16, 40:19, 40:21-40:23, 40:25-40:30, 40:34- 40:40, 40:43, 40:45-40:51, 40:53-40:58, 40:61- 40:88, 40:90-40:97, 40:99-40:119, 40:121-40:123, 40:125-40:130:02, 40:132-40:158, 40:160:01- 40:171, 40:173-40:179, 40:181-40:186:02, 40:188- 40:266, 40:268-40:279, 40:281-40:283, 40:285- 40:304, 40:305 ^w , 40:306, 40:308-40:329, 41:01:01- 41:03:02, 41:05-41:09, 41:11-41:17, 41:19-41:20, 41:22-41:46, 42:01:01-42:02:01:02, 42:04-42:08, 42:10-42:15, 42:17-42:19, 42:21-42:22, 44:10, 44:14, 44:31, 44:62, 44:77, 44:82, 44:166, 44:184, 44:213, 45:12, 45:14, 46:11, 46:18, 46:61, 48:01:01-48:01:06, 48:03:01-48:07, 48:09-48:16, 48:18-48:22, 48:24, 48:27-48:38, 50:36, 51:01:01:01-51:01:30, 51:01:32-51:01:49, 51:01:51-51:02:02, 51:02:04-51:16, 51:19- 51:24:05, 51:26-51:36, 51:38-51:41N, 51:43- 51:44N, 51:46, 51:48-51:84, 51:86-51:89, 51:91, 51:93, 51:95-51:134, 51:136-51:145, 51:147- 51:171, 51:173Q-51:196, 51:198-51:202, 52:01:01:01-52:01:10, 52:01:12-52:11, 52:13- 52:25, 52:27-52:56, 52:57 ^w , 52:58-52:61, 53:19, 53:36, 54:01:01-54:05N, 54:07-54:08N, 54:10- 54:13, 54:17-54:34, 55:01:01-55:05, 55:07-55:13, 55:15-55:22, 55:24-55:26, 55:28-55:40,

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35⁶	240 bp 365 bp	1070 bp	*35:40N *35:68:01, 35:292	*08:12:03, 08:107, 51:06:02

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36⁵	110 bp 180 bp 230 bp	800 bp	*35:79 *35:70, 35:220 *35:35	*40:236 *15:265, 37:40, 38:20, 39:42, C*15:51
37⁵	85 bp	1070 bp	*35:60, 35:291	*13:01:01-13:03, 13:06-13:09, 13:11-13:12:02, 13:14-13:20, 13:22:01-13:23, 13:25, 13:27-13:34, 13:36-13:45, 13:47-13:50, 13:52-13:58, 13:60- 13:61, 13:63N-13:70, 13:73-13:78, 13:80-13:85, 13:87-13:91, 14:37, 15:42, 15:73, 15:86, 15:224, 15:303, 39:17, 40:71, 44:10, 44:15, 44:18, 44:140, 45:01:01-45:01:02, 45:04-45:08, 45:10-45:18, 46:11, 46:18, 49:01:01-49:03, 49:06-49:14, 49:16- 49:17, 49:19N-49:39, 49:41-49:42, 50:01:01-50:02, 50:04-50:08, 50:10-50:13, 50:15-50:19, 50:31- 50:32, 50:34-50:38, 50:40-50:44, 51:15, 51:62, 51:106, 51:157, 52:25, 54:01:01-54:03, 54:05N, 54:07-54:08N, 54:10, 54:12-54:13, 54:16-54:34, 55:01:01-55:03, 55:05, 55:07, 55:09-55:12, 55:15- 55:16, 55:18-55:19, 55:21-55:22, 55:24-55:26, 55:29-55:31, 55:33-55:48, 55:50, 55:52-55:57, 55:59-55:67, 55:69-55:78, 56:01:01:01-56:01:03, 56:01:06-56:02:02, 56:04, 56:07-56:08, 56:10, 56:13-56:14, 56:16-56:17, 56:19N, 56:23-56:30, 56:33-56:49, 58:73, 59:01:01:01-59:01:01:02, 59:04-59:09, 82:01-82:03
38	300 bp	800 bp	*35:01:35, 35:02:01- 35:02:08, 35:81, 35:83, 35:95, 35:129N, 35:146, 35:154, 35:157, 35:162, 35:172, 35:182-35:184, 35:211, 35:220, 35:258, 35:270, 35:273, 35:285, 35:309, 35:311	*07:225, 13:86, 45:12, 50:36, 53:19, 53:36, 58:01:02, 58:65
39⁵	115 bp	1070 bp	*35:14:01-35:14:02, 35:43:01-35:44, 35:62, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135, 35:163, 35:185, 35:213, 35:265	*07:100, 13:31, 13:41, 15:01:01:01-15:01:04, 15:01:06-15:01:16, 15:01:18-15:01:30, 15:01:32- 15:01:39, 15:04:01-15:04:03, 15:07:01-15:08:02, 15:11:01-15:12, 15:14-15:15, 15:19, 15:24:01- 15:24:02, 15:26N-15:28, 15:30, 15:32:01-15:32:02, 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, 15:92, 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, 15:244-15:247, 15:251, 15:256-15:262N, 15:264, 15:267, 15:269- 15:270, 15:272N, 15:276-15:280, 15:284-15:286, 15:296, 15:298-15:299, 15:303-15:305, 15:309,

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40	185 bp	1070 bp	*35:63, 35:137, 35:147, 35:182, 35:217, 35:278	*07:73, 08:88, 08:102, 15:53, 15:212, 15:336, 15:347, 18:102, 18:107, 27:08, 27:12, 27:18, 27:26, 27:33, 27:40, 27:42, 27:44, 27:89, 40:01:01-40:02:03, 40:02:05-40:09, 40:11:01-40:11:02, 40:14:01-40:16, 40:18, 40:20, 40:22N-40:40, 40:42-40:46, 40:48-40:75, 40:77-40:82, 40:84-40:93, 40:95, 40:97-40:108, 40:111-40:116, 40:118N-40:136, 40:138-40:156, 40:158-40:169, 40:171-40:184, 40:186:01-40:187, 40:189-40:200, 40:202-40:208, 40:210-40:214, 40:216N-40:247, 40:249-40:291N, 40:293-40:309, 40:311-40:330, 41:01:01-41:02:03, 41:02:05-41:04, 41:06-41:11, 41:13-41:25, 41:27-41:45N, 44:09, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01:01-45:15, 45:17-45:18, 47:02, 47:03 ^w , 50:01:01-50:02, 50:04-50:20, 50:31-50:44
41^{5,6}	110 bp	1070 bp	*35:82, 35:85, 35:135, 35:200, 35:294	*15:376, 18:33, 37:57, 39:19:01-39:19:02, 51:22, 52:23, 78:03
42⁵	115 bp 155 bp 190 bp 250 bp	800 bp	*35:97 *35:53N *35:91 *35:65Q	
43	205 bp 255 bp	1070 bp	*35:54 *35:89	*08:151, 14:42, 51:140, C*06:147 *08:135
44^{5,6}	110 bp 145 bp	1070 bp	*35:78	*13:58, 18:09, 37:10, 44:83, 44:134, 51:54, 51:78:01-51:78:02, 52:20, 53:09, 53:11-53:13, 53:31, 53:36, 53:38
45	300 bp 165 bp	800 bp	*35:55 *35:01:01:01-35:01:27, 35:01:29-35:30, 35:32:01-35:34, 35:36-35:42:02, 35:44-35:45, 35:47-35:56, 35:58-35:59:02, 35:61:01-35:72, 35:74-35:78, 35:80-35:86, 35:88-35:184, 35:186-35:278, 35:280-35:314	*15:20, 15:228, 15:305, 48:02:01-48:02:03, 51:01:01:01-51:24:05, 51:26-51:41N, 51:43-51:46, 51:48-51:156, 51:158:01-51:163, 51:165-51:202, 52:01:01:01-52:06:03, 52:08-52:61, 53:01:01-53:41, 56:05:01-56:05:02, 56:21, 56:36, 58:01:01:01-58:02:02, 58:04-58:10N, 58:12-58:19, 58:21-58:29, 58:31N-58:78, 67:05, 78:01:01-78:09, 81:03, 83:01 [?]

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46^{6,7}	165 bp	1070 bp	*35:31, 35:35 ^w , 35:43:01, 35:46, 35:57, 35:60, 35:79, 35:87, 35:185, 35:279	*07:02:01-07:57, 07:59-07:268, 08:01:01-08:05, 08:07-08:161, 13:01:01-13:01:11, 13:02:01-13:04, 13:06-13:23, 13:25-13:60, 13:62-13:91, 14:01:01 ^w - 14:54 ^w , 15:01:01:01-15:01:04, 15:01:06-15:19, 15:21, 15:23-15:40, 15:42-15:58, 15:60-15:99, 15:101, 15:103-15:129, 15:131-15:227, 15:229- 15:283, 15:285-15:304N, 15:306-15:383, 18:01:01:01-18:15, 18:17N-18:120, 27:01- 27:05:30, 27:06-27:21, 27:23-27:147, 37:01:01- 37:57, 38:01:01 ^w -38:61 ^w , 39:01:01:01 ^w - 39:01:01:04 ^w , 39:01:03 ^w -39:20 ^w , 39:22 ^w -39:42 ^w , 39:43, 39:44 ^w -39:45 ^w , 39:47 ^w -39:116N ^w , 40:01:01- 40:01:41, 40:01:42 ^w , 40:01:43-40:06:02, 40:06:03 ^w , 40:06:04-40:06:07, 40:06:09-40:16, 40:18-40:40, 40:42-40:235, 40:237-40:271, 40:273-40:300, 40:302-40:330, 41:01:01-41:42, 41:43 ^w , 41:44- 41:46, 42:01:01-42:02:01:02, 42:04-42:22, 44:02:01:01-44:65, 44:67-44:117, 44:119-44:240, 45:01:01-45:18, 46:01:01-46:66, 47:01:01:01- 47:10, 48:01:01-48:01:06, 48:02:02-48:38, 49:01:01-49:14, 49:16-49:42, 50:01:01-50:02, 50:04-50:20, 50:31-50:44, 51:42, 51:157, 52:07, 54:01:01-54:34, 55:01:01-55:01:02, 55:01:04- 55:05, 55:07-55:78, 56:01:01:01-56:04, 56:06- 56:20:02, 56:22-56:50, 57:01:01-57:01:10, 57:01:12-57:83, 58:11, 58:20 ^w , 59:01:01:01-59:09, 67:01:01 ^w -67:04 ^w , 67:06 ^w -67:07 ^w , 78:08, 81:01- 81:02, 81:04N-81:08, 82:01-82:02:01, 82:03, 83:01 [?]
47	160 bp	800 bp	*35:38, 35:169	*08:69, 38:30, 41:18, 42:06, 44:117 ^w , 44:226, 45:14, 55:56, 56:13, 82:01-82:03, C*07:04:01^w, C*07:04:10^w, C*07:11^w-07:12^w, C*07:45^w, C*07:63^w, C*07:101^w, C*07:139^w, C*07:142^w, C*07:181^w, C*07:199:01^w-07:199:02^w, C*07:272^w, C*07:323^w-07:324^w, C*07:328^w-07:329N^w, C*07:336^w, C*07:338^w, C*07:354^w-07:355^w, C*07:357^w-07:358^w, C*07:361^w, C*07:364^w- 07:365^w, C*07:378^w, C*07:394^w-07:395^w, C*07:403^w, C*07:406^w, C*07:420^w, C*07:426^w, C*07:428^w, C*07:459^w, C*07:466^w-07:467^w, C*07:480^w, C*07:487^w
48	390 bp	1070 bp	*35:01:01:01-35:19, 35:21-35:25, 35:27, 35:29:01-35:62, 35:64:01-35:71, 35:74-35:75, 35:77, 35:79-35:81, 35:83- 35:84, 35:86-35:94, 35:96-35:134N, 35:136-35:185, 35:187-35:225, 35:227-35:228, 35:230-35:254, 35:256-35:293, 35:295, 35:297- 35:314	*18:07:01-18:07:02, 18:29, 18:79, 27:23, 37:21, 40:08, 40:13, 40:68 [?] , 40:106 [?] , 40:162 [?] , 40:220 [?] , 40:232 [?] , 44:06, 44:232, 51:01:01:01-51:06:03, 51:08:01-51:21, 51:23-51:24:05, 51:26-51:46, 51:48-51:127, 51:129-51:188, 51:190-51:202, 52:06:01-52:06:03, 53:01:01-53:08:02, 53:10- 53:16, 53:18-53:27, 53:29-53:37, 53:39, 53:41, 78:01:01-78:02:02, 78:04, 78:07-78:09

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49	385 bp	800 bp	*35:01:04, 35:05:01- 35:05:03, 35:08:03, 35:30, 35:58, 35:66, 35:68:02, 35:89, 35:97, 35:114, 35:151, 35:232	*08:96, 51:56:01, 53:14
50⁷	170 bp	1070 bp	*35:101:01- 35:101:02, 35:195, 35:211, 35:216N	*51:76, 52:42
51⁵	65 bp 155 bp 185 bp	1070 bp	*35:145N *35:100, 35:102 *35:214	*15:334, 44:133
52	220 bp 250 bp	1070 bp	*35:141 *35:104	
53⁷	135 bp 220 bp	1070 bp	*35:103 *35:129N ^w	
54	160 bp 190 bp 585 bp	1070 bp	*35:106, 35:216N *35:110	*58:77 *58:77
55	205 bp 300 bp	1070 bp	*35:263 *35:108:01- 35:108:02	*40:283? *40:228?, 53:26
56	140 bp 225 bp	1070 bp	*35:128 *35:107, 35:158	*15:306
57	150 bp 185 bp	800 bp	*35:149 *35:111	
58⁵	110 bp 160 bp	1070 bp	*35:139 *35:115, 35:260	*15:326, 40:321, 44:157, 55:74, C*05:30 *08:37, 08:89, 08:107, 15:51, 15:179:01-15:179:02, 15:199, 15:218Q, 18:56, 18:113, 37:35, 37:56, 42:09, 44:17, 44:230, 45:09, 53:22, 57:24
59⁵	200 bp 75 bp 150 bp	1070 bp	*35:112 *35:116 *35:127	*15:359 *57:21
60⁵	90 bp 135 bp	800 bp	*35:121 *35:120	
61⁵	110 bp 175 bp 265 bp	800 bp	*35:139 *35:122 *35:123	*15:326, 40:321, 44:157, 55:74, C*05:30 *15:277-15:278, 56:29
62	140 bp 260 bp	1070 bp	*35:144 *35:132, 35:246	C*15:56
63⁵	55 bp	1070 bp	*35:146	C*06:21
64⁵	90 bp 245 bp	1070 bp	*35:130N *35:134N	
65⁷	220 bp	1070 bp	*35:148	
66⁵	90 bp 115 bp	1070 bp	*35:133 *35:105, 35:113, 35:159	
67⁵	105 bp 200 bp	1070 bp	*35:138 *35:191	*44:26, 47:07 *40:227, 49:32
68⁵	90 bp	1070 bp	*35:137, 35:140, 35:147, 35:182, 35:278	*18:102, 18:118, 27:52, 40:308, 44:134, 51:103, A*02:598
69⁵	95 bp 325 bp	1070 bp	*35:143 *35:147	*51:73, 55:26

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70	135 bp	1070 bp	*35:98, 35:117, 35:165N	*15:197:01, 15:215
71⁵	120 bp 160 bp	800 bp	*35:126 *35:119	
72	220 bp	1070 bp	*35:01:34, 35:03:11, 35:09:02-35:09:03, 35:18, 35:31, 35:64:01, 35:88, 35:114, 35:118, 35:205, 35:230	*07:02:01-07:02:13, 07:02:15-07:02:24, 07:02:26- 07:02:34, 07:02:36-07:06:01, 07:07-07:67N, 07:68:03-07:99, 07:101-07:213, 07:215-07:234, 07:236, 07:238-07:261, 07:263-07:268, 08:01:02, 08:01:13, 08:20, 08:53:02, 08:79, 08:156, 13:01:11, 13:21, 13:71, 15:01:35, 15:02:03, 15:03:02, 15:03:06, 15:10:03, 15:33, 15:47:02, 15:78:02, 15:107, 15:116, 15:141, 15:150, 15:188, 15:248, 15:352, 18:21, 27:01-27:04:04, 27:05:02- 27:05:26, 27:05:28-27:21, 27:23-27:75, 27:77- 27:89, 27:90:02-27:98, 27:100-27:123, 27:125-27:126, 27:128-27:147, 37:02, 37:07, 37:09, 38:22, 40:01:01-40:01:13, 40:01:15- 40:02:19, 40:02:22-40:06:04, 40:06:06-40:13, 40:14:03-40:16, 40:18-40:25, 40:27:01-40:27:02, 40:29-40:35:01, 40:36-40:40, 40:42-40:70:02, 40:72:02-40:76, 40:78-40:81, 40:83-40:86, 40:87:02-40:94, 40:96-40:114:01, 40:115-40:120, 40:122-40:135, 40:137-40:157, 40:159-40:183, 40:185-40:236, 40:238-40:254, 40:256N-40:325, 40:327-40:330, 41:08, 44:03:14, 44:31, 44:150, 44:169, 44:182, 46:01:16, 46:06, 47:01:01:01- 47:10, 48:01:01-48:01:06, 48:03:01-48:11, 48:13, 48:15-48:24, 48:26-48:38, 51:01:09, 51:01:21, 51:01:25, 51:10, 51:24:02-51:24:04, 51:81, 51:197, 52:54, 54:11, 55:04, 55:08, 55:49, 56:20:02, 57:01:07, 57:13, 58:27, 67:03, 81:01-81:08
73⁶	205 bp	800 bp	*35:01:35, 35:02:01- 35:02:08, 35:81, 35:83, 35:95, 35:129N, 35:146, 35:154, 35:162, 35:172, 35:182- 35:184, 35:211, 35:220, 35:258, 35:270, 35:273, 35:285, 35:309, 35:311	*13:86, 45:12, 50:36, 53:19, 53:36, 58:01:02, 58:65, C*03:04:22
74	160 bp	1070 bp	*35:173N, 35:275, 35:281	*44:72, 44:204
75⁵	90 bp 135 bp	1070 bp	*35:176 *35:27, 35:56, 35:185, 35:203	*18:49, 18:79, 18:108, 37:05, 78:06, 78:09
76⁶	145 bp 220 bp 375 bp	1070 bp	*35:271 *35:193 *35:161	*18:66, 46:47 C*08:89N *15:198
77⁷	135 bp 180 bp 385 bp	1070 bp	*35:227 *35:245 *35:36	
78	310 bp	1070 bp	*35:94	
79⁵	100 bp	1070 bp	*35:131	*15:349

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80⁵	110 bp	1070 bp	*35:194, 35:228	
81⁵	80 bp 120 bp 260 bp	1070 bp	*35:219 *35:228 *35:293	*15:158, 58:42
82	200 bp	1070 bp	*35:225	
83⁵	95 bp 180 bp	1070 bp	*35:250 *35:245	*51:165
84	130 bp	1070 bp	*35:52, 35:92	
85	415 bp	1070 bp	*35:42:01, 35:42:02 [?]	*18:07:01-18:07:02, 18:29, 18:79, 27:23, 37:21, 40:08, 40:13, 40:68 [?] , 40:106 [?] , 40:162 [?] , 40:220 [?] , 40:232 [?] , 44:06, 44:232, 59:01:01:01-59:07, 59:09, C*06:147
86	500 bp	1070 bp	*35:08:05, 35:42:02	*44:02:10 ^w , 44:06 ^w , 44:34:01 ^w , 51:04, 51:42 ^w , 51:56:01 ^w , 51:56:02-51:56:03, 51:139, 53:06
87⁵	125 bp	1070 bp	*35:241	
88	130 bp	1070 bp	*35:01:01:01- 35:03:11, 35:03:13- 35:03:17, 35:03:19- 35:18, 35:20:01-35:24:02, 35:27-35:28, 35:30- 35:45, 35:48, 35:50- 35:62, 35:64:01-35:68:02, 35:70-35:72, 35:74- 35:75, 35:77-35:135, 35:137-35:152, 35:155-35:185, 35:187-35:197, 35:199-35:202, 35:204-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:228, 35:230-35:242, 35:244-35:248, 35:250-35:253, 35:255-35:270, 35:272-35:273, 35:275-35:293, 35:295-35:304, 35:306-35:310, 35:312-35:314	*08:133, 15:202, 15:239, 15:308, 15:376, 18:01:01:01-18:01:01:03, 18:01:03-18:01:22, 18:01:24-18:02, 18:04-18:08, 18:10-18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:53, 18:55-18:65, 18:67-18:93, 18:95-18:106, 18:109-18:120, 37:01:02, 37:11, 37:14, 37:29, 40:185, 40:209, 40:308, 51:185, 52:09, 53:05, 53:16, 53:33, 58:64, 78:02:01-78:02:02, 78:04-78:06, 78:09
89	230 bp	1070 bp	*35:236, 35:259	*44:29, 44:89, C*03:215
90⁵	105 bp	1070 bp	*35:46-35:47, 35:154, 35:217, 35:257, 35:278	*08:155, 13:36, 18:48, 18:107, 38:12, 40:08, 40:25, 40:68, 40:106, 40:166 ^w , 40:232, 40:313, 44:12, 44:232, 50:15, 51:74, 53:30
91	180 bp	1070 bp	*35:35, 35:93, 35:188, 35:190, 35:262, 35:277	*08:37, 08:89, 08:107, 15:50, 15:69, 15:93, 15:186, 15:199, 15:348, 15:368, 18:01:01:01-18:01:13, 18:01:15-18:01:17, 18:01:19-18:09, 18:11-18:15, 18:17N-18:19, 18:22-18:25, 18:27-18:34, 18:37-18:40, 18:42-18:49, 18:51-18:55, 18:59-18:60, 18:62-18:85, 18:87-18:96, 18:98-18:100, 18:102-

101.522-24/03 – including *Taq* pol., IFU-01
 101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **2E1**

Lot-specific information

				18:105, 18:107-18:120, 37:35, 37:56, 38:52, 39:07, 39:43, 39:91, 42:09, 46:03, 46:21:01-46:21:02, 46:29, 54:09, 54:14, 55:14, 55:23, 55:68, 56:18, 56:31-56:32, 57:26, 58:05, 58:35, 58:76, C*01:102, C*06:89, C*07:123, C*07:173, C*07:294, C*08:113, C*12:113, C*15:09, C*15:19, C*15:27, C*15:61, C*15:107, C*16:20
92	190 bp	1070 bp	*35:298	*46:39
93¹¹	-	-	Negative Control	

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B*35 SSP typings.

When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits, the alleles listed are specified according to amplicon length.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

³For several HLA Class I alleles 1st and/or 4th exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B*35 alleles will be amplified by primer mixes 1 to 41, 43 to 51, 54 to 56, 58, 59, 61, 67 to 70, 72 to 76, 79, 81, 83, 85, 86 and 88 to 92. In addition, a few HLA-A and HLA-C alleles will be amplified by primer mixes 2, 3, 10, 11, 14, 15, 18 to 20, 22, 23, 28 to 32, 34, 36, 37, 39, 43, 47, 58, 61 to 63, 68, 73, 76, 85, 89 and 91.

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

⁶Primer mixes 35, 41, 44, 46, 73 and 76 may have a tendency to giving rise to primer oligomer formation.

⁷Primer mixes 3, 6, 7, 10, 27, 30, 33, 46, 50, 53, 65 and 77 have tendencies of unspecific amplifications.

⁸Primer mixes 8, 17, 20 and 27 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B*35 primer mixes.

⁹Primer mix 7 may faintly amplify the B*44 alleles.

¹⁰Primer mix 14 may faintly amplify the B*37 alleles.

¹¹Primer mix 93 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs.

'w', might be weakly amplified.

'?', nucleotide sequence of the primer matching region not known.

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **2E1**

Lot-specific information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	95	150	115	280	290	85	160	280	140	140	225	95
PCR product							330			205		125
										240		
Length of int. pos. control ¹	800	1070	1070	1070	800	1070	800	1070	800	1070	800	1070
5'-primer(s) ²	206 5'-gAC 3'	355 5'-TCA 3'	412 5'-ATg 3'	419 5'-gTC 3'	397 5'-gCT 3'	419 5'-gTA 3'	142 5'-TCA 3'	419 5'-gTT 3'	363 5'-AgC 3'	49 5'-CAg 3'	355 5'-TCA 3'	206 5'-gAC 3'
					412 5'-ATA 3'		368 5'-gTT 3'	419 5'-gTT 3'	363 5'-AgC 3'	388 5'-CCT 3'		
3'-primer(s) ³	259 5'-gTT 3'	463 5'-gCT 3'	486 5'-gCg 3'	3 rd I 5'-TAT 3'	3 rd I 5'-TAT 3'	463 5'-gCT 3'	259 5'-gTT 3'	3 rd I 5'-TAT 3'	463 5'-gCT 3'	85 5'-CAA 3'	538 5'-CCg 3'	259 5'-CTC 3'
	259 5'-gTT 3'		486 5'-gCT 3'				3 rd I 5'-TAT 3'			119 5'-ggA 3'		289 5'-AgC 3'
										486 5'-gCg 3'		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	170	75	135	95	180	105	230	200	260	90	190	425
PCR product				190		180				270		
Length of int. pos. control ¹	800	800	1070	1070	800	800	1070	1070	800	1070	800	1070
5'-primer(s) ²	527 5'-TgA 3'	355 5'-TCA 3'	463 5'-TgA 3'	112 5'-CCg 3'	106 5'-CCA 3'	206 5'-gAC 3'	106 5'-CCA 3'	141 5'-ATT 3'	49 5'-CAg 3'	209 5'-ggC 3'	379 5'-ACC 3'	49 5'-CAg 3'
				206 5'-gAA 3'		419 5'-gTC 3'		412 5'-ATA 3'		355 5'-TCA 3'	379 5'-ATC 3'	
3'-primer(s) ³	3 rd I 5'-TAT 3'	387 5'-TCC 3'	559 5'-CTC 3'	259 5'-gTT 3'	246 5'-TAT 3'	272 5'-Tgg 3'	292 5'-gTC 3'	309 5'-ATC 3'	142 5'-TgA 3'	259 5'-gTT 3'	527 5'-CCA 3'	301 5'-gTC 3'
						559 5'-CgT 3'	299 5'-TCA 3'	559 5'-CTC 3'		583 5'-gTg 3'	527 5'-CCA 3'	309 5'-ATC 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **2E1**

Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	135	210	110	230	105	115	170	170	205	185	240	110
PCR product	220	370	160			325	210		310	230	365	180
												230
Length of int. pos. control ¹	800	800	1070	800	1070	800	1070	1070	1070	800	1070	800
5'-primer(s) ²	206	72	142	369	357	49	103	165	409	368	272	355
	5'-gAC 3'	5'-gCT 3'	5'-TCA 3'	5'-TAC 3'	5'-Tgg 3'	5'-CAg 3'	5'-CCT 3'	5'-ACC 3'	5'-ggC 3'	5'-gTC 3'	5'-CTT 3'	5'-TCA 3'
	477	103	355			486	103		742	416	808	635
	5'-gCC 3'	5'-CCT 3'	5'-TCA 3'			5'-ACC 3'	5'-CCT 3'		5'-ACA 3'	5'-CCg 3'	5'-CgC 3'	5'-ACg 3'
		103					142					641
		5'-CCT 3'					5'-TCT 3'					5'-gAT 3'
												704
												5'-TgA 3'
3'-primer(s) ³	302	272	259	559	419	204	272	292	572	559	353	544
	5'-ggT 3'	5'-TgA 3'	5'-gTT 3'	5'-CAg 3'	5'-Cgg 3'	5'-TCT 3'	5'-TgA 3'	5'-gTC 3'	5'-gCg 3'	5'-CAg 3'	5'-ggg 3'	5'-ggT 3'
	3rd I		425		419	559			916		916	774
	5'-TAT 3'		5'-CgC 3'		5'-CgA 3'	5'-CTC 3'			5'-gAT 3'		5'-gAT 3'	5'-ggT 3'
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec.	85	300	115	185	110	115	205	110	165	165	160	390
PCR product						155	255	145				
						190		300				
						250						
Length of int. pos. control ¹	1070	800	1070	1070	1070	800	1070	1070	800	1070	800	1070
5'-primer(s) ²	420	390	463	167	206	106	106	206	652	652	419	49
	5'-TTA 3'	5'-gAT 3'	5'-TgA 3'	5'-gCT 3'	5'-gAC 3'	5'-CCA 3'	5'-CCg 3'	5'-gAC 3'	5'-CCg 3'	5'-CCA 3'	5'-gTT 3'	5'-CAg 3'
		397				355	363	355				
		5'-gCT 3'				5'-TCA 3'	5'-AgC 3'	5'-TCA 3'				
							363					
							5'-AgC 3'					
3'-primer(s) ³	463	3 rd I	538	311	272	181	272	277	774	774	538	272
	5'-gCT 3'	5'-TAT 3'	5'-CCA 3'	5'-ggT 3'	5'-TgC 3'	5'-gTg 3'	5'-TgA 3'	5'-ggC 3'	5'-ggT 3'	5'-ggT 3'	5'-gTC 3'	5'-TgA 3'
					280	471	577	309				
					5'-gTC 3'	5'-TC 3'	5'-gCA 3'	5'-gTg 3'				
						505		614				
						5'-gCT 3'		5'-CgT 3'				
						564						
						5'-ACC 3'						
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.522-24/03 – including *Taq* pol., IFU-01
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Lot No.: **2E1**

Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	385	170	65	220	135	160	205	140	150	110	75	90
PCR product			155	250	220	190	300	225	185	160	150	135
			185			585				200		
Length of int. pos. control ¹	800	1070	1070	1070	1070	1070	1070	1070	800	1070	1070	800
5'-primer(s) ²	272	206	190	355	106	206	49	115	106	106	352	367
	5'-CTT 3'	5'-gAC 3'	5'-ACT 3'	5'-TCA 3'	5'-CCA 3'	5'-gAC 3'	5'-CAG 3'	5'-ggA 3'	5'-CCA 3'	5'-CCA 3'	5'-ACg 3'	5'-TgC 3'
			199			355		136		419	431	412
			5'-gTg 3'			5'-TCA 3'		5'-gCC 3'		5'-gTC 3'	5'-CgA 3'	5'-ATC 3'
			416					211				
			5'-CCg 3'					5'-AgT 3'				
			533									
			5'-ggg 3'									
3'-primer(s) ³	369	331	311	532	200	325	85	311	214	176	463	463
	5'-CCg 3'	5'-CTA 3'	5'-ggT 3'	5'-CTg 3'	5'-TCA 3'	5'-gTg 3'	5'-CAA 3'	5'-ggT 3'	5'-CCC 3'	5'-ACT 3'	5'-gCT 3'	5'-gCT 3'
	369	343	559	565	286	331	178		250	267		
	5'-CCg 3'	5'-T 3'	5'-CAg 3'	5'-CAg 3'	5'-CTA 3'	5'-CTA 3'	5'-gAg 3'		5'-CCC 3'	5'-ATA 3'		
		343				506	180			538		
		5'-g 3'				5'-TgT 3'	5'-TCC 3'			5'-gTC 3'		
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec.	110	140	55	90	220	90	105	90	95	135	120	220
PCR product	175	260		245		115	200		325		160	
	265											
Length of int. pos. control ¹	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	800	1070
5'-primer(s) ²	106	355	397	106	134	387	106	167	106	363	344	477
	5'-CCA 3'	5'-TCA 3'	5'-gCT 3'	5'-CCA 3'	5'-CCT 3'	5'-TCC 3'	5'-CCA 3'	5'-gCT 3'	5'-CCA 3'	5'-AgT 3'	5'-A 3'	5'-gCC 3'
				804		413		463	727	365	383	
				5'-TgA 3'		5'-TgT 3'		5'-TgA 3'	5'-Agg 3'	5'-gAA 3'	5'-ggC 3'	
										375		
										5'-TgA 3'		
3'-primer(s) ³	176	456	412	153	311	463	171	206	160	463	463	3 rd I
	5'-ACT 3'	5'-TCg 3'	5'-gTC 3'	5'-ACT 3'	5'-ggT 3'	5'-gCT 3'	5'-ACC 3'	5'-CCg 3'	5'-gTT 3'	5'-gCT 3'	5'-gCT 3'	5'-TAT 3'
	239	575		916			265	524	916			
	5'-gCT 3'	5'-ggg 3'		5'-gAT 3'			5'-CTC 3'	5'-CAT 3'	5'-gAT 3'			
	332											
	5'-TCC 3'											
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

101.522-24/03 – including *Taq* pol., IFU-01
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Lot No.: **2E1**

Lot-specific information

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec. PCR product	205	160	90	145	135	310	100	110	80	200	95	130
			135	220	180				120		180	
				375	385				260			
Length of int. pos. control ¹	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) ²	390	106	206	134	320	742	406	106	106	133	652	206
	5' -gAT 3'	5' -CCA 3'	5' -gAC 3'	5' -CCC 3'	5' -CgA 3'	5' -ACA 3'	5' -gCC 3'	5' -CCA 3'	5' -CCA 3'	5' -CCT 3'	5' -CCg 3'	5' -gAC 3'
	397			209	652							
	5' -gCT 3'			5' -ggA 3'	5' -CCg 3'							
				673								
				5' -CCA 3'								
3'-primer(s) ³	559	218	253	311	419	916	463	170	146	292	704	289
	5' -CAg 3'	5' -gCT 3'	5' -gTT 3'	5' -ggT 3'	5' -CgA 3'	5' -gAT 3'	5' -gCT 3'	5' -Cgg 3'	5' -CCT 3'	5' -gTA 3'	5' -CCA 3'	5' -AgC 3'
		224	302	916	746			187	187		791	301
		5' -TCT 3'	5' -ggT 3'	5' -gAT 3'	5' -gAA 3'			5' -gTg 3'	5' -gTg 3'		5' -AgA 3'	5' -gCA 3'
				791					323			
				5' -AgA 3'					5' -AgA 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
Length of spec. PCR product	415	500	125	130	230	105	180	190
Length of int. pos. control ¹	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) ²	25	141	691	201	355	193	419	625
	5' -CCC 3'	5' -ATT 3'	5' -TgT 3'	5' -CCA 3'	5' -TCA 3'	5' -CCA 3'	5' -gTC 3'	5' -CCA 3'
				206				
				5' -gAC 3'				
3'-primer(s) ³	272	353	774	292	544	259	559	774
	5' -TgA 3'	5' -TgA 3'	5' -ggT 3'	5' -gTA 3'	5' -ggT 3'	5' -gTT 3'	5' -CgT 3'	5' -ggT 3'
Well No.	85	86	87	88	89	90	91	92

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

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

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

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **2E1**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*35 SSP subtyping ²																				
				Well ³																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201437901	201205802	201205803	201205804	201551705	201205806	201205807	201205808	201205809	201670710	201205811	201205812	201205813	201205814	201205815	201205816
IHWC cell line ¹		B*																		
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
2	9280 LK707	*52:01	*73:01	-	-	-	-	+	+	W	-	-	-	-	-	+	+	-	-	-
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	+	+	+	+	-	-	-	-	-	-	-	-	-	-	+	-	-

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **2E1**

Lot-specific information

CELL LINE VALIDATION SHEET																							
HLA-B*35 SSP subtyping²																							
				Well³																			
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32				
				Prod. No.:	201551717	201205818	201320619	201205820	201205821	201205822	201205823	201205824	201205825	201205826	201205827	201205828	201205829	201205830	201670731	201670732			
IHWC cell line¹		B*																					
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	+			
2	9280 LK707	*52:01	*73:01	-	+	-	-	-	-	-	-	+	-	-	W	-	+	-	-	-			
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	-	-	+	+	-	-	+	-	-	-	-	+	-	+	-	W	-			
41	9055 H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
42	9066 TAB089	*46:01		-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	W	-			
43	9076 T7526	*46:01		-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	W	-			
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	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-			

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **2E1**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*35 SSP subtyping²																				
				Well³																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	201670733	201437934	201205835	201320636	201205837	201670738	201205839	201205840	201437941	201205842	201205843	201205844	201205845	201320646	201205847	201205848
		IHWC cell line¹	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **2E1**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*35 SSP subtyping²																				
				Well³																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:	201320649	201320650	201437951	201205852	201205853	201320654	201670755	201205856	201205857	201205858	201205859	201205860	201205861	201205862	201205863	201205864
		IHWC cell line¹	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **2E1**

Lot-specific information

CELL LINE VALIDATION SHEET																					
HLA-B*35 SSP subtyping²																					
					Well³																
					65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
					Prod. No.:	201551765	201205866	201205867	201205868	201205869	201320670	201205871	201205872	201670773	201670774	201205875	201670776	201437977	201205878	201205879	201551780
IHWC cell line¹			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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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

Lot No.: **2E1**

Lot-specific information

HLA-B*35 SSP subtyping ²				Well ³											
				81	82	83	84	85	86	87	88	89	90	91	92
				201670781	201670782	201437983	201437984	201437985	201670786	201437987	201551788	201551789	201670790	201670791	201670792
IHC cell line ¹		B*		Prod. No.:											
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	-	-	-	-	-	-	-	+	-	-	-	-

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 2E1

Lot-specific information

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

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

³The C*07:04 allele is weakly amplified by primer mix 47 in the 9045 (TUBO) cell line.

No DNAs carrying the alleles to be amplified by primer solutions 10, 35, 36, 41 to 44, 50 to 71, 74, 76 to 84, 86, 87, 89 and 92 were available.

The specificities of the primers in primer solutions 10, 35, 36, 41, 43, 44, 50, 58, 61, 63, 64, 68, 69, 77 and 86 were tested by separately adding one or two additional 5'-primers, respectively one, two or three additional 3'-primers.

In primer solutions 42, 52 to 55, 57, 62, 67, 74, 80, 81, 83, 84 and 89 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 51, 56, 59, 60, 65, 66, 70, 71, 76, 78, 79, 82, 87 and 92 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solutions 10, 16, 33 to 36, 38, 43, 64, 69, 73 and 77 one, two or three of the 5'-primers were not possible to test, and in primer solutions 1, 10, 12, 35, 41, 43, 44, 49, 50, 58, 61, 64, 69, 75 and 77 one or two of the 3'-primers were not possible to test.

Additional primers in primer solutions 3, 22, 26, 31, 33 and 88 were tested by separately adding one 5'-primer and/or one or two 3'-primers.

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **2E1**

Lot-specific information

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **2E1**

Lot-specific information

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **2E1**

Lot-specific information

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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

Lot No.: **2E1**

Lot-specific information

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Fax: +46-8-717 88 18

E-mail: olerup-se@caredx.com

Web page: <http://www.olerup.com>

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Fax: +43-1-710 15 00 10

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