

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information
Olerup SSP® DRB1*14

Product number: 101.117-12/03 – including *Taq* pol.
101.117-12u/03u – without *Taq* pol.
Lot number: 5L2
Expiry date: 2024-09-01
Number of tests: 12 tests – Product No. 101.117-12/12u
3 tests – Product No. 101.117-03/03u
Number of wells per test: 47+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. 5L2.

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

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP®
DRB1*14 LOT (5K3)**

- The product documentation has been updated for new alleles of IMGT 3.40.0
- The kit resolution focuses on common and well documented (CWD) alleles¹.

¹As described in section Uniquely Identified Alleles.

The DRB1*14 primer set, specificity and interpretation tables have been updated for the DRB1 alleles reported since the previous *Olerup SSP®* DRB1*14 lot (**Lot No. 5K3**) was made.

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

Well	5'-primer	3'-primer	rationale
21	-	Added	3'-primer added for the DRB1*14:114 allele.
43	Added	-	5'-primer added for the DRB1*14:111 allele.
47	-	Added	3'-primer added for the DRB1*14:114 allele.

¹S. J. Mack, P. Cano, J. A. Hollenbach¹ et al.
Common and well-documented HLA alleles: 2012 update to
the CWD catalogue. Tissue Antigens, 2013, 81, 194–203

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

Well **48** contains Negative Control primer pairs, that will amplify the majority of the *Olerup* SSP® HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

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

Length of PCR product	105	200	105	80	75	80	85
5'-primer¹	164	340	440	45	45	43	36
	5'-CAC3'	5'-Agg3'	5'-TTA3'	5'-Tgg3'	5'-Tgg3'	5'-Tgg3'	5'-TAC3'
							36
							5'-TAT3'
3'-primer²	231	2nd I	507	59	58	57	47
	5'-TgC3'	5'-AAA3'	5'-TTg3'	5'-CTC3'	5'-ggC3'	5'-CTC3'	5'-ACA3'
							48
							5'-gCA3'
							48
							5'-gCC3'
							52
							5'-TgT3'
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.

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

PRODUCT DESCRIPTION

DRB1*14 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DRB1*14:01 to DRB1*14:221 alleles.

PLATE LAYOUT

Each test consists of 48 PCR reactions in a 48 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	NC

The 48 well cut PCR plate is marked with 'DRB1*14' in silver/gray ink.

Well No. 1 is marked with the Lot No. '5L2'.

Wells 1 to 47 – DRB1*14 high resolution primers.

Well 48 – 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.

Please note: When removing each 48 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

Due to the sharing of sequence motifs between DRB1 alleles, non-DRB1*14 alleles will be amplified by some primer mixes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the DRB1*14 alleles, i.e. **DRB1*14:01 to DRB1*14:221**, recognized by the HLA Nomenclature Committee in April 2020^{1,2} will be amplified by the primers in the DRB1*14 subtyping kit³.

The DRB1*14 kit enables separation of the confirmed DRB1*14 alleles as listed in the IMGT/HLA database 3.27.0. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for DRB1*14 alleles is listed below.

The DRB1*14 kit also enables identification of many null and alternatively expressed alleles.

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

The following DRB1*14 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix
DRB1*14:01:02-14:01:04, 14:86	26
DRB1*14:26, 14:110	24

¹DRB1 alleles listed on the IMGT/HLA web page 2020-April-20, release 3.40.0, 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>.

³The DRB1*14 primer set cannot separate the following alleles. These alleles can be distinguished by the DR low resolution and/or DRB1*03 and DRB1*13 kits:

Alleles
DRB1*14:21, DRB1*03:76, DRB1*13:178

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
DRB1*14:01:01	Confirmed	DRB1*14:32:01	Unconfirmed	DRB1*14:73	Unconfirmed	DRB1*14:123	Confirmed
DRB1*14:01:02	Confirmed	DRB1*14:32:02	Unconfirmed	DRB1*14:74	Confirmed	DRB1*14:124	Unconfirmed
DRB1*14:01:03	Unconfirmed	DRB1*14:32:03	Unconfirmed	DRB1*14:75	Unconfirmed	DRB1*14:125	Unconfirmed
DRB1*14:01:04	Unconfirmed	DRB1*14:33	Confirmed	DRB1*14:76	Confirmed	DRB1*14:126:01	Unconfirmed
DRB1*14:02:01	Confirmed	DRB1*14:34	Unconfirmed	DRB1*14:77	Unconfirmed	DRB1*14:126:02	Unconfirmed
DRB1*14:02:02	Unconfirmed	DRB1*14:35	Confirmed	DRB1*14:78	Unconfirmed	DRB1*14:127:01	Unconfirmed
DRB1*14:02:03	Unconfirmed	DRB1*14:36	Unconfirmed	DRB1*14:79	Unconfirmed	DRB1*14:127:02	Unconfirmed
DRB1*14:03:01	Confirmed	DRB1*14:37	Unconfirmed	DRB1*14:80	Unconfirmed	DRB1*14:128	Unconfirmed
DRB1*14:03:02	Unconfirmed	DRB1*14:38:01	Unconfirmed	DRB1*14:81	Unconfirmed	DRB1*14:129	Confirmed
DRB1*14:04:01	Confirmed	DRB1*14:38:02	Unconfirmed	DRB1*14:82	Confirmed	DRB1*14:130	Unconfirmed
DRB1*14:04:02	Unconfirmed	DRB1*14:39	Unconfirmed	DRB1*14:83	Unconfirmed	DRB1*14:131	Unconfirmed
DRB1*14:04:03	Unconfirmed	DRB1*14:40	Unconfirmed	DRB1*14:84	Confirmed	DRB1*14:132	Unconfirmed
DRB1*14:05:01	Confirmed	DRB1*14:41	Confirmed	DRB1*14:85	Unconfirmed	DRB1*14:133	Unconfirmed
DRB1*14:05:02	Unconfirmed	DRB1*14:42	Confirmed	DRB1*14:86	Unconfirmed	DRB1*14:134	Unconfirmed
DRB1*14:05:03	Unconfirmed	DRB1*14:43	Unconfirmed	DRB1*14:87	Confirmed	DRB1*14:135	Unconfirmed
DRB1*14:05:04	Unconfirmed	DRB1*14:44:01	Unconfirmed	DRB1*14:88	Unconfirmed	DRB1*14:136	Confirmed
DRB1*14:06:01	Confirmed	DRB1*14:44:02	Unconfirmed	DRB1*14:89	Confirmed	DRB1*14:137N	Unconfirmed
DRB1*14:06:02	Confirmed	DRB1*14:44:03	Unconfirmed	DRB1*14:90	Confirmed	DRB1*14:138	Confirmed
DRB1*14:06:03	Unconfirmed	DRB1*14:45	Unconfirmed	DRB1*14:91	Unconfirmed	DRB1*14:139	Unconfirmed
DRB1*14:07:01	Confirmed	DRB1*14:46	Confirmed	DRB1*14:92N	Unconfirmed	DRB1*14:140	Unconfirmed
DRB1*14:07:02	Unconfirmed	DRB1*14:47	Confirmed	DRB1*14:93	Unconfirmed	DRB1*14:141	Confirmed
DRB1*14:08	Confirmed	DRB1*14:48	Confirmed	DRB1*14:94	Confirmed	DRB1*14:142	Unconfirmed
DRB1*14:09	Confirmed	DRB1*14:49	Confirmed	DRB1*14:95	Confirmed	DRB1*14:143	Confirmed
DRB1*14:10	Confirmed	DRB1*14:50	Unconfirmed	DRB1*14:96	Unconfirmed	DRB1*14:144	Unconfirmed
DRB1*14:11	Confirmed	DRB1*14:51	Unconfirmed	DRB1*14:97	Confirmed	DRB1*14:145	Confirmed
DRB1*14:12:01	Confirmed	DRB1*14:52	Confirmed	DRB1*14:98	Unconfirmed	DRB1*14:146	Unconfirmed
DRB1*14:12:02	Unconfirmed	DRB1*14:53	Confirmed	DRB1*14:99	Confirmed	DRB1*14:147	Unconfirmed
DRB1*14:13	Confirmed	DRB1*14:54:01	Confirmed	DRB1*14:100	Unconfirmed	DRB1*14:148	Unconfirmed
DRB1*14:14	Confirmed	DRB1*14:54:02	Unconfirmed	DRB1*14:101	Confirmed	DRB1*14:149	Unconfirmed
DRB1*14:15	Confirmed	DRB1*14:54:03	Unconfirmed	DRB1*14:102	Unconfirmed	DRB1*14:150	Unconfirmed
DRB1*14:16	Confirmed	DRB1*14:54:04	Unconfirmed	DRB1*14:103	Confirmed	DRB1*14:151	Unconfirmed
DRB1*14:17	Confirmed	DRB1*14:54:05	Unconfirmed	DRB1*14:104	Unconfirmed	DRB1*14:152N	Confirmed
DRB1*14:18	Confirmed	DRB1*14:55	Unconfirmed	DRB1*14:105	Unconfirmed	DRB1*14:153	Unconfirmed
DRB1*14:19	Confirmed	DRB1*14:56	Unconfirmed	DRB1*14:106	Confirmed	DRB1*14:154	Unconfirmed
DRB1*14:20	Confirmed	DRB1*14:57	Unconfirmed	DRB1*14:107	Unconfirmed	DRB1*14:155	Unconfirmed
DRB1*14:21	Confirmed	DRB1*14:58	Unconfirmed	DRB1*14:108	Unconfirmed	DRB1*14:156	Unconfirmed
DRB1*14:22	Confirmed	DRB1*14:59	Unconfirmed	DRB1*14:109	Confirmed	DRB1*14:157	Confirmed
DRB1*14:23:01	Confirmed	DRB1*14:60	Unconfirmed	DRB1*14:110	Unconfirmed	DRB1*14:158	Confirmed
DRB1*14:23:02	Unconfirmed	DRB1*14:61	Confirmed	DRB1*14:111	Unconfirmed	DRB1*14:159	Unconfirmed
DRB1*14:23:03	Unconfirmed	DRB1*14:62	Unconfirmed	DRB1*14:112	Unconfirmed	DRB1*14:160	Unconfirmed
DRB1*14:23:04	Confirmed	DRB1*14:63	Unconfirmed	DRB1*14:113	Confirmed	DRB1*14:161	Unconfirmed
DRB1*14:24	Confirmed	DRB1*14:64	Unconfirmed	DRB1*14:114	Unconfirmed	DRB1*14:162	Unconfirmed
DRB1*14:25	Confirmed	DRB1*14:65	Unconfirmed	DRB1*14:115	Unconfirmed	DRB1*14:163	Confirmed
DRB1*14:26	Unconfirmed	DRB1*14:67	Unconfirmed	DRB1*14:116	Unconfirmed	DRB1*14:164	Unconfirmed
DRB1*14:27:01	Unconfirmed	DRB1*14:68:01	Confirmed	DRB1*14:117	Unconfirmed	DRB1*14:165	Unconfirmed
DRB1*14:27:02	Unconfirmed	DRB1*14:68:02	Unconfirmed	DRB1*14:118	Unconfirmed	DRB1*14:166N	Unconfirmed
DRB1*14:28	Unconfirmed	DRB1*14:69	Unconfirmed	DRB1*14:119	Confirmed	DRB1*14:167	Unconfirmed
DRB1*14:29	Confirmed	DRB1*14:70	Confirmed	DRB1*14:120	Unconfirmed	DRB1*14:168	Unconfirmed
DRB1*14:30	Confirmed	DRB1*14:71	Confirmed	DRB1*14:121	Unconfirmed	DRB1*14:169	Unconfirmed
DRB1*14:31	Unconfirmed	DRB1*14:72	Confirmed	DRB1*14:122	Confirmed	DRB1*14:170	Unconfirmed

Allele	Status ¹	Allele	Status ¹
DRB1*14:171	Unconfirmed	DRB1*14:181	Unconfirmed
DRB1*14:172	Unconfirmed	DRB1*14:182	Unconfirmed
DRB1*14:173	Unconfirmed	DRB1*14:183	Unconfirmed
DRB1*14:174	Unconfirmed	DRB1*14:184	Confirmed
DRB1*14:175	Unconfirmed		
DRB1*14:176	Unconfirmed		
DRB1*14:177	Unconfirmed		
DRB1*14:178	Unconfirmed		
DRB1*14:179	Unconfirmed		
DRB1*14:180	Unconfirmed		

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: 5L2

Lot-specific information

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2017-January-20, release 3.27.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in DRB1*14 homo- and heterozygotes is available upon request.

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information
SPECIFICITY TABLE

DRB1*14 SSP subtyping

Specificities and sizes of the PCR products of the 47+1 primer mixes used for
DRB1*14 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of contr. band ²	Amplified DRB1*14 alleles ³	Other amplified DRB alleles
1	215 bp	515 bp	*14:01:01-14:01:05, 14:05:01:01-14:05:05, 14:07:01-14:08, 14:14, 14:18, 14:23:01-14:23:04, 14:26, 14:32:01-14:32:03, 14:34-14:36, 14:38:01-14:39, 14:42-14:45, 14:54:01:01-14:54:09, 14:56, 14:58-14:60, 14:62, 14:64-14:65, 14:70, 14:72, 14:75, 14:81-14:82, 14:86-14:88, 14:90-14:92N, 14:95-14:97, 14:99-14:101, 14:103, 14:110, 14:112-14:114, 14:117-14:118, 14:122-14:125, 14:127:01-14:127:02, 14:129-14:134, 14:139-14:140, 14:142, 14:147, 14:149-14:151, 14:153-14:155, 14:157-14:158, 14:160-14:163, 14:166N-14:169, 14:172, 14:178, 14:184-14:193, 14:197N, 14:202, 14:204, 14:207-14:208, 14:211, 14:213-14:217, 14:219	*11:01:03, 11:01:10-11:01:11, 11:04:07, 11:08:03, 11:13:01-11:13:02, 11:17, 11:19:02, 11:42:02, 11:52, 11:89, 11:159, 11:202, 11:266, 13:02:02, 13:26:01, 13:42:02, 13:60, 13:77, 13:163, 13:181, 13:289N
2	180 bp	430 bp	*14:01:01-14:01:05, 14:07:01-14:08, 14:16, 14:22, 14:25:01-14:26, 14:32:01-14:32:03, 14:34-14:35, 14:38:01-14:39, 14:49, 14:53-14:55, 14:58, 14:60, 14:62, 14:69-14:70, 14:72, 14:74-14:75, 14:82, 14:86-14:88, 14:90, 14:92N, 14:97, 14:99, 14:101, 14:104-14:105, 14:110-14:114, 14:117-14:119, 14:122, 14:124-14:125, 14:128-14:133, 14:137N, 14:139-14:140, 14:142, 14:146-14:147, 14:149-14:151, 14:153, 14:157-14:158, 14:162-14:164, 14:166N, 14:168, 14:171-14:173, 14:178, 14:184-14:186, 14:189-14:193, 14:197N, 14:200, 14:202-14:204, 14:207-14:208, 14:211, 14:213-14:217, 14:219	*03:10, 11:31, 11:52, 11:96, 11:148, 13:43, 13:45, 13:159, 13:171:01, 13:179, 13:191, 13:197, 13:217
3	140 bp	430 bp	*14:02:01:01-14:02:08, 14:06:01-14:06:04, 14:09, 14:13, 14:17, 14:19, 14:21, 14:29-14:30, 14:33, 14:46-14:48, 14:51-14:52, 14:80, 14:83, 14:106, 14:108-14:109,	*03:76, 03:126, 04:211, 04:230, 13:10, 13:85, 13:120, 13:170, 13:176, 13:178, 13:193, 13:196

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

			14:121, 14:165, 14:170, 14:176-14:177, 14:179, 14:194-14:195N, 14:198, 14:200, 14:209, 14:212	
4⁴	85 bp	430 bp	*14:02:01:01-14:03:02, 14:06:01-14:06:04, 14:12:01-14:13, 14:18-14:20, 14:24, 14:27:01-14:27:02, 14:29, 14:40-14:41, 14:47-14:49, 14:51, 14:63, 14:67, 14:77-14:78, 14:81, 14:83, 14:85, 14:89, 14:94, 14:98, 14:106, 14:108-14:109, 14:115, 14:135, 14:154, 14:156, 14:159-14:160, 14:165, 14:170, 14:174, 14:176-14:177, 14:181, 14:194-14:195N, 14:198, 14:200, 14:209, 14:212, 14:218	*03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74, 03:88, 03:90, 03:102-03:103, 03:115, 03:119, 03:131, 03:154, 03:167, 13:15, 13:19, 13:26:01-13:26:02, 13:53, 13:57, 13:85, 13:104, 13:198, 13:235
5	260 bp	515 bp	*14:02:01:01-14:02:07, 14:03:01-14:03:02, 14:07:01-14:07:02, 14:09, 14:13-14:14, 14:19, 14:22, 14:24-14:25:02, 14:27:01-14:27:02, 14:30, 14:36, 14:40-14:42, 14:44:01-14:44:03, 14:47-14:49, 14:51, 14:53, 14:63, 14:67, 14:69, 14:77, 14:85, 14:89, 14:94, 14:98, 14:102, 14:109, 14:115-14:116, 14:119, 14:134-14:135, 14:144, 14:159, 14:164, 14:174, 14:179, 14:181, 14:194, 14:198, 14:200, 14:208-14:209, 14:218	*03:02:01-03:02:04, 03:05:01-03:05:03, 03:09, 03:14, 03:17, 03:27, 03:29, 03:35, 03:38, 03:40-03:41:02, 03:53, 03:74, 03:81, 03:88, 03:90, 03:102-03:103, 03:115, 03:122, 03:130-03:131, 03:154-03:155, 03:167, 11:01:01:01-11:01:27, 11:01:28 [?] , 11:01:29-11:01:39, 11:08:01-11:11:01, 11:11:03-11:12:03, 11:14:01-11:15, 11:19:01-11:20, 11:23:01-11:24:02, 11:26-11:29:02, 11:31-11:33, 11:37:01-11:37:02, 11:39, 11:45, 11:49:01-11:49:02, 11:51, 11:53, 11:61-11:62:02, 11:64, 11:66:01-11:66:02, 11:68-11:69, 11:72-11:75, 11:79-11:82, 11:87, 11:90-11:91, 11:93-11:97, 11:99-11:101:02, 11:103:01-11:103:02, 11:105-11:112, 11:114, 11:117:01-11:117:02, 11:120-11:122, 11:125-11:126, 11:128, 11:133-11:134, 11:136, 11:140-11:145, 11:147:01-11:147:02, 11:149-11:150, 11:152, 11:154-11:155, 11:157-11:158, 11:162, 11:164, 11:166-11:170, 11:172, 11:175, 11:177-11:178, 11:183-11:186, 11:188, 11:191-11:192, 11:195, 11:197, 11:199, 11:204-11:205, 11:208, 11:212, 11:215, 11:219, 11:222, 11:225-11:226, 11:228, 11:232, 11:234-11:240, 11:243, 11:245, 11:247-11:248Q, 11:250N, 11:252, 11:254, 11:257, 11:259, 11:262-11:263, 11:265-11:266, 11:268-11:269, 13:02:01:01-13:02:03, 13:02:05-13:03:09, 13:05:01-13:05:03, 13:07:01-13:07:02, 13:12:01-13:14:03, 13:21:01-13:21:02, 13:23:01-13:23:02, 13:25-13:26:02, 13:29-13:31, 13:33:01-13:34, 13:36-13:39, 13:41, 13:45-13:47, 13:49-13:50:03, 13:55-13:56, 13:60, 13:62-13:63, 13:65-13:66:02, 13:73-13:74, 13:82, 13:85-13:86, 13:88, 13:90,

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

				13:95-13:97:02, 13:99-13:101, 13:104, 13:107, 13:115, 13:118-13:120, 13:122-13:124, 13:126, 13:128, 13:132-13:136, 13:139-13:140, 13:142N-13:143, 13:145, 13:147, 13:151-13:152, 13:154-13:155, 13:157-13:159, 13:161, 13:165, 13:167-13:168, 13:170-13:172, 13:174, 13:179-13:180, 13:182, 13:188-13:189, 13:194, 13:196-13:199, 13:202-13:203, 13:207-13:212, 13:216, 13:219-13:220, 13:224-13:225, 13:227-13:230, 13:232, 13:235-13:237, 13:239-13:241, 13:243-13:244, 13:247, 13:250, 13:253, 13:255N, 13:257, 13:264-13:265, 13:268N-13:269, 13:275, 13:277, 13:280, 13:282, 13:285-13:286, 13:288-13:289N, 13:292-13:293, 13:295N-13:298N, DRB3*01:14
6	260 bp	515 bp	*14:01:01-14:01:05, 14:05:01:01-14:06:04, 14:08, 14:12:01-14:12:02, 14:16-14:18, 14:20-14:21, 14:23:01-14:23:04, 14:26, 14:29, 14:32:01-14:35, 14:37-14:39, 14:43, 14:45, 14:54:01:01-14:56, 14:58-14:60, 14:62, 14:64-14:65, 14:70, 14:72, 14:74-14:75, 14:78, 14:80-14:84, 14:86-14:88, 14:90-14:92N, 14:95-14:97, 14:99-14:101, 14:103-14:106, 14:108, 14:110-14:114, 14:117-14:118, 14:121-14:125, 14:127:01-14:133, 14:136-14:137N, 14:139-14:140, 14:146-14:147, 14:149-14:151, 14:153-14:158, 14:160-14:163, 14:165-14:173, 14:176-14:178, 14:183-14:193, 14:195N, 14:197N, 14:202-14:204, 14:207, 14:211-14:217, 14:219, 14:221	*03:01:01:01-03:01:30, 03:03-03:04:02, 03:06-03:08, 03:10-03:13:02, 03:15:01-03:16, 03:18-03:26, 03:28, 03:30-03:34, 03:36-03:37, 03:39, 03:43-03:52:02, 03:54-03:56, 03:58-03:62, 03:64-03:68N, 03:70-03:73, 03:75-03:80, 03:82-03:86, 03:89, 03:91, 03:93-03:101, 03:104-03:110, 03:112-03:114, 03:116-03:121, 03:124-03:129, 03:132-03:153, 03:156N-03:161, 03:163-03:166, 03:168-03:172, 08:20, 11:02:01:01-11:04:20, 11:06:01-11:07:02, 11:13:01-11:13:02, 11:16-11:18, 11:21, 11:25, 11:34-11:36, 11:38, 11:40-11:44, 11:46:01-11:48, 11:50, 11:52, 11:54:01-11:60, 11:63:01-11:63:02, 11:65:01-11:65:02, 11:70, 11:76-11:78, 11:83-11:85, 11:88-11:89, 11:92, 11:98, 11:102:01-11:102:02, 11:113, 11:115-11:116, 11:118-11:119, 11:123-11:124:02, 11:127, 11:129-11:132, 11:135, 11:137-11:139, 11:146, 11:148, 11:151, 11:153, 11:156, 11:159-11:161, 11:163, 11:165:01-11:165:02, 11:171, 11:173-11:174, 11:176, 11:179-11:182, 11:187, 11:189-11:190, 11:194, 11:196, 11:198, 11:200-11:203, 11:206-11:207, 11:210-11:211, 11:213-11:214, 11:216-11:218, 11:220-11:221, 11:223-11:224, 11:227, 11:230-11:231, 11:233, 11:241-11:242, 11:244, 11:246N, 11:249, 11:251, 11:253, 11:255-11:256, 11:258, 11:260, 11:264, 11:267, 13:01:01:01-13:01:28, 13:04, 13:06, 13:08-13:11:02, 13:15, 13:18-13:20, 13:22:01-13:22:02, 13:24, 13:27:01-13:28:02, 13:32, 13:35, 13:40, 13:42:01-13:44, 13:48, 13:51-13:54, 13:57-13:59,

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

				13:61:01-13:61:02, 13:64, 13:68-13:72, 13:75-13:81, 13:83-13:84, 13:87, 13:89:01-13:89:02, 13:91-13:94:02, 13:98, 13:102, 13:105-13:106, 13:108, 13:110-13:114, 13:117, 13:121, 13:125, 13:127, 13:129-13:131, 13:137N-13:138, 13:141, 13:144, 13:146, 13:148-13:150, 13:153, 13:156, 13:162-13:164, 13:166, 13:169, 13:173, 13:176-13:178, 13:181, 13:184-13:187, 13:190-13:193, 13:200N-13:201, 13:204-13:206, 13:213, 13:215, 13:217-13:218, 13:221-13:223, 13:226, 13:231, 13:233-13:234, 13:238, 13:242:01-13:242:02, 13:245-13:246, 13:249N, 13:251-13:252N, 13:254, 13:256, 13:258-13:263, 13:266-13:267, 13:270-13:274, 13:276, 13:278Q-13:279, 13:281, 13:283-13:284, 13:287, 13:291, 13:294
7	200 bp 225 bp	430 bp	*14:45, 14:122, 14:178 *14:03:01-14:03:02, 14:12:01-14:12:02, 14:27:01-14:27:02, 14:40, 14:55, 14:63, 14:67, 14:77-14:78, 14:84-14:85, 14:89, 14:102, 14:115-14:116, 14:135-14:136, 14:144, 14:156, 14:164, 14:173-14:174, 14:181, 14:218	*13:193 *03:157, 08:20, 11:23:01-11:23:02, 11:25, 11:45, 11:55, 11:64, 11:119, 13:13, 13:18, 13:47, 13:55, 13:119, 13:144, 13:146, 13:154, 13:156, 13:158, 13:164, 13:232, 13:286
8	170 bp	430 bp	*14:04:01:01-14:04:07, 14:28, 14:31, 14:50, 14:61, 14:68:01-14:68:02, 14:71, 14:73, 14:76, 14:79, 14:93, 14:107, 14:120, 14:138, 14:145, 14:152N, 14:180, 14:196, 14:199, 14:201, 14:205-14:206, 14:210Q, 14:220	*08:08, 08:11 ^w
9	130 bp 250 bp	430 bp	*14:62, 14:65, 14:78, 14:169-14:170 *14:05:01:01-14:05:05, 14:37, 14:43, 14:45, 14:56, 14:84, 14:91, 14:96, 14:100, 14:103, 14:127:01-14:127:02, 14:130, 14:136, 14:161, 14:167, 14:187, 14:189	*03:12, 03:158, 04:10:01-04:11:04, 04:11:06-04:12, 04:67, 04:91, 04:126, 04:136, 04:147, 04:201, 04:203, 04:207, 04:250, 04:303, 08:06, 08:10, 08:12, 08:22, 08:54, 08:70, 12:46, 13:04, 13:32, 13:48, 13:58, 13:75, 13:81, 13:89:01-13:89:02, 13:93-13:94:02, 13:108, 13:164, 13:169, 13:276, 15:12 *11:218, 13:72
10	180 bp	430 bp	*14:10, 14:39, 14:57, 14:143, 14:157, 14:182	*04:62, 04:69, 04:146, 04:235, 04:251
11 ⁴	85 bp	430 bp	*14:16, 14:22, 14:25:01-14:25:02, 14:31-14:32:03, 14:34, 14:49, 14:53, 14:69, 14:74, 14:105, 14:119, 14:128, 14:182, 14:200, 14:208	*01:14, 04:62, 13:43, 13:45, 13:159, 13:179, 13:191, 13:217, DRB5*01:73

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

12	225 bp	515 bp	*14:01:01-14:01:05, 14:05:01:01-14:05:05, 14:07:01-14:08, 14:14, 14:18, 14:23:01-14:23:04, 14:26, 14:33, 14:35-14:36, 14:38:01-14:39, 14:42-14:45, 14:51, 14:54:01:01-14:54:09, 14:56, 14:58-14:60, 14:62, 14:64, 14:70, 14:72, 14:75, 14:82, 14:86, 14:88, 14:90-14:92N, 14:95-14:97, 14:99, 14:101, 14:103, 14:106, 14:110, 14:112-14:114, 14:117-14:118, 14:122, 14:124-14:125, 14:127:01-14:127:02, 14:129-14:134, 14:137N, 14:139-14:140, 14:142, 14:146-14:147, 14:149-14:151, 14:153-14:155, 14:157-14:158, 14:160-14:163, 14:166N-14:169, 14:172, 14:178, 14:184-14:193, 14:197N, 14:202-14:204, 14:207, 14:211, 14:213-14:217, 14:219, 14:221	*03:11:01, 03:17, 03:24, 03:27, 03:35, 03:81, 03:97, 03:126, 03:167, 11:17, 11:52-11:54:02, 11:89, 11:136, 11:150, 11:159, 11:202, 11:267, 13:76, 13:188, 13:206
13⁴	115 bp	430 bp	*14:01:01-14:01:05, 14:04:01:01-14:04:07, 14:07:01-14:08, 14:10, 14:16, 14:22, 14:26, 14:28, 14:31-14:32:03, 14:34-14:35, 14:38:01-14:39, 14:49-14:50, 14:54:01:01-14:54:03, 14:54:04 ^w , 14:54:05-14:55, 14:60-14:62, 14:68:01-14:68:02, 14:70-14:75, 14:79, 14:82, 14:86-14:88, 14:90, 14:92N-14:93, 14:97, 14:99, 14:104-14:105, 14:107, 14:110-14:114, 14:117-14:120, 14:122, 14:124-14:125, 14:129-14:133, 14:137N-14:140, 14:142-14:143, 14:145-14:153, 14:157-14:158, 14:162-14:164, 14:166N, 14:168, 14:171-14:173, 14:180, 14:182, 14:184, 14:185 ^w , 14:189-14:192, 14:196-14:197N, 14:199-14:204, 14:206-14:207, 14:210Q-14:211, 14:213-14:217, 14:219-14:220	*03:10, 11:52, 13:43, 13:159, 13:179, 13:191, 13:217, DRB3*02:16
14⁴	60 bp 130 bp	515 bp	*14:22, 14:25:01-14:25:02, 14:53, 14:73, 14:105, 14:128 *14:27:01-14:27:02	*08:08, DRB5*01:73 *08:73, 11:09, 11:28:01-11:28:03, 11:58:01-11:58:02, 11:83, 11:87, 11:113, 11:115, 11:182, 13:05:01-13:05:03, 13:18, 13:26:01-13:26:02, 13:42:01-13:42:02, 13:50:01-13:50:03, 13:136, 13:144, 13:158, 13:189, 13:199, 13:203, 13:277, 16:08, DRB5*01:70
15	185 bp	430 bp	*14:28-14:29, 14:99	*03:20, 03:145, 12:05, 12:14-12:15, 12:56-12:58, 13:163, 13:242:01-13:242:02
16⁴	105 bp	430 bp	*14:05:01:01-14:05:02, 14:05:04-14:05:05, 14:08, 14:11, 14:14,	*01:02:01:01-01:02:05, 01:02:07-01:02:13, 01:20:02, 01:23, 01:26, 01:34,

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

			14:18, 14:23:01-14:23:04, 14:34, 14:36, 14:42-14:44:01, 14:44:03-14:45, 14:56, 14:59, 14:64, 14:72, 14:91, 14:95-14:96, 14:100, 14:123, 14:126:01-14:126:02, 14:127:02, 14:130, 14:134, 14:154-14:155, 14:160-14:161, 14:167, 14:175, 14:187-14:188N, 14:211	01:43-01:44:02, 01:46, 01:54, 01:57, 01:74, 01:76, 01:81, 01:83, 01:86-01:88, 01:93-01:94, 01:96-01:97, 01:111, 03:01:17, 03:15:02, 03:97, 03:145, 04:03:11, 04:06:05, 08:02:04, 11:01:05, 11:01:10, 11:04:03, 11:06:02, 11:13:01-11:13:02, 11:17, 11:52, 11:54:01, 11:159, 11:202, 12:04, 12:09, 12:48-12:49, 12:76, 13:01:03, 13:02:13, 13:76, 13:163, 13:193, 13:242:02, 15:01:03, 15:02:06, 15:03:05, 16:01:14, 16:02:05
17	220 bp	430 bp	*14:19, 14:21, 14:43, 14:109, 14:163	*03:76, 11:73, 11:79, 11:93, 11:131-11:132, 11:153, 11:184, 13:03:01-13:03:09, 13:10, 13:33:01-13:33:03, 13:37, 13:66:01-13:66:02, 13:81, 13:85, 13:88-13:90, 13:94:01-13:95, 13:101, 13:115, 13:120, 13:122, 13:133, 13:151-13:152, 13:167, 13:170, 13:172, 13:174, 13:176, 13:178, 13:180, 13:188, 13:194, 13:196, 13:216, 13:219, 13:227, 13:230, 13:253
18 ⁴	85 bp	430 bp	*14:01:01-14:01:05, 14:05:01:01-14:05:05, 14:07:01-14:09, 14:14, 14:16-14:17, 14:21-14:23:04, 14:25:01-14:26, 14:30, 14:32:01-14:39, 14:42-14:45, 14:53-14:54:03, 14:54:04 ^w , 14:54:05-14:56, 14:58-14:60, 14:62, 14:64-14:65, 14:69, 14:72, 14:74-14:75, 14:80, 14:82, 14:84, 14:86-14:88, 14:90-14:92N, 14:95-14:97, 14:99-14:101, 14:103-14:105, 14:110-14:114, 14:116-14:119, 14:122-14:123, 14:125, 14:127:01-14:134, 14:136-14:137N, 14:139-14:140, 14:142, 14:144, 14:146-14:147, 14:149-14:151, 14:153, 14:157-14:158, 14:161-14:164, 14:166N-14:167, 14:169, 14:171-14:173, 14:178-14:179, 14:184-14:193, 14:197N, 14:202-14:204, 14:207-14:208, 14:211, 14:213-14:217, 14:219, 14:221	*03:01:01:01-03:01:23, 03:01:24 ^w , 03:01:25-03:01:30, 03:04:01-03:26, 03:28, 03:30-03:37, 03:39-03:41:02, 03:43-03:52:02, 03:54-03:59, 03:61-03:68N, 03:70-03:73, 03:75-03:86, 03:89, 03:91, 03:93-03:98, 03:100:01-03:100:02, 03:104-03:110, 03:112 ^w , 03:113-03:114, 03:116-03:118, 03:121-03:130, 03:132-03:153, 03:155-03:161, 03:163-03:166, 03:168-03:172, 08:20, 11:01:01:01-11:01:23, 11:01:25-11:01:27, 11:01:28 [?] , 11:01:29-11:04:20, 11:06:01-11:11:01, 11:11:03-11:21, 11:23:01-11:29:02, 11:31-11:66:02, 11:68-11:70, 11:73-11:91, 11:93-11:103:02, 11:105-11:120, 11:122-11:153, 11:155-11:192, 11:194, 11:196-11:208, 11:210-11:228, 11:230-11:240, 11:242-11:260, 11:262-11:269, 13:01:01:01-13:02:08, 13:02:10-13:14:03, 13:16, 13:18, 13:20-13:25, 13:27:01-13:52, 13:54-13:56, 13:58-13:66:02, 13:68-13:84, 13:87-13:100, 13:102, 13:105-13:115, 13:117-13:159, 13:161-13:174, 13:176-13:182, 13:184-13:194, 13:196-13:197, 13:199-13:213, 13:215, 13:217-13:218, 13:220-13:234, 13:236-13:242:02, 13:244-13:247, 13:249N-13:298N, DRB3*01:14
19	145 bp	430 bp	*14:15-14:16, 14:40, 14:55, 14:57, 14:77, 14:84, 14:136, 14:164, 14:173	*08:09:01-08:09:02, 08:21, 08:35, 13:08, 13:19, 13:57, 13:64, 13:72, 13:76, 13:83, 13:107, 13:135, 13:175, 13:182, 13:195, 13:204 ^w , 13:232, 13:250

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

20⁴	110 bp	430 bp	*14:25:01-14:25:02, 14:53, 14:58, 14:69, 14:128, 14:186, 14:208	*08:08, 13:45, 13:197
	160 bp		*14:04:01:01-14:04:07, 14:28, 14:31, 14:50, 14:68:01-14:68:02, 14:71, 14:73, 14:76, 14:79, 14:93, 14:102, 14:107, 14:116, 14:120, 14:138, 14:145, 14:152N, 14:180, 14:196, 14:201, 14:205-14:206, 14:210Q, 14:220	*08:01:01, 08:01:04-08:03:10, 08:04:01-08:04:07, 08:06-08:08, 08:10-08:17, 08:19-08:20, 08:22-08:23, 08:26, 08:28, 08:30:01-08:30:03, 08:33-08:34, 08:36:01, 08:37, 08:39, 08:42, 08:44-08:46, 08:48-08:55, 08:57-08:66, 08:68:02-08:69, 08:71-08:86, 08:88-08:91, 08:93-08:97, 08:99-08:101, 08:103, 11:23:01-11:23:02, 11:25, 11:45, 11:55, 11:64, 11:67, 11:119, 13:13, 13:47, 13:55, 13:154, 13:164, 13:286
	215 bp		*14:15	*08:01:01-08:01:02, 08:01:04-08:01:05, 08:01:07-08:04:07, 08:06-08:13, 08:15-08:17, 08:19, 08:21-08:23, 08:26-08:28, 08:30:01-08:30:03, 08:32-08:39, 08:42, 08:44-08:46, 08:48-08:55, 08:58-08:66, 08:68:01-08:79, 08:81-08:91, 08:93-08:97, 08:99-08:101, 08:103, 11:67
21	170 bp	515 bp	*14:13, 14:63, 14:65, 14:78, 14:85, 14:169-14:170	*03:12, 03:155, 03:158, 13:03:01-13:04, 13:12:01-13:13, 13:21:01-13:21:02, 13:30, 13:32-13:33:03, 13:38, 13:48-13:49, 13:55, 13:58, 13:65-13:66:02, 13:75, 13:81, 13:88-13:90, 13:93-13:95, 13:101, 13:108, 13:115, 13:118, 13:120, 13:122, 13:133-13:134, 13:139, 13:151-13:152, 13:154, 13:161, 13:164, 13:167, 13:169, 13:174, 13:188, 13:194, 13:216, 13:219, 13:227-13:228, 13:230, 13:253, 13:276, 13:295N
	215 bp		*14:24, 14:37	*11:69, 11:82, 13:09, 13:129, 13:192
	275 bp		*14:114	*03:165
22	145 bp	430 bp	*14:01:01-14:03:01, 14:05:01:01-14:09, 14:12:01-14:14, 14:16, 14:18-14:20, 14:22-14:27:02, 14:29, 14:32:01-14:32:03, 14:34, 14:36-14:41, 14:43-14:45, 14:47-14:49, 14:51, 14:54:01:01-14:56, 14:58-14:60, 14:62-14:63, 14:67, 14:69-14:70, 14:74-14:75, 14:77-14:78, 14:80-14:92N, 14:94, 14:96-14:106, 14:108-14:119, 14:121-14:125, 14:127:01-14:127:02, 14:129-14:131, 14:133, 14:135-14:137N, 14:139-14:140, 14:142, 14:144, 14:146-14:147, 14:149, 14:151, 14:153-14:174, 14:176-14:178, 14:181, 14:183-14:185, 14:188N-14:195N, 14:197N-14:198, 14:200, 14:202-14:204, 14:207, 14:209, 14:211-14:219	*03:02:01-03:03, 03:06, 03:17, 03:26-03:27, 03:31, 03:35, 03:38, 03:41:01-03:41:02, 03:60, 03:74-03:75, 03:80, 03:85, 03:88, 03:90, 03:102-03:103, 03:115, 03:122, 03:131, 03:154-03:155, 03:158, 03:167, 08:20, 11:17, 11:37:01-11:37:02, 11:41, 11:48, 11:50, 11:52, 11:56, 11:83, 11:107, 11:145, 11:149, 11:170-11:171, 11:183-11:184, 11:189, 11:200, 11:249, 11:264, 13:03:01-13:03:09, 13:07:01-13:08, 13:12:01-13:13, 13:19, 13:26:01-13:26:02, 13:32-13:33:03, 13:36-13:38, 13:40, 13:47-13:49, 13:53, 13:55, 13:58, 13:60, 13:65, 13:70, 13:72, 13:76, 13:81, 13:84-13:85, 13:88-13:90, 13:94:01-13:95, 13:101, 13:108, 13:115, 13:118, 13:120, 13:122, 13:133-13:135, 13:149, 13:151-13:152, 13:159, 13:164, 13:167, 13:174, 13:180, 13:182, 13:188-13:189, 13:191, 13:194, 13:198, 13:216, 13:219,

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

				13:227-13:228, 13:230-13:232, 13:235, 13:246, 13:253, 13:262, 13:295N, DRB3*01:14
23^{4,5}	75 bp 155 bp	430 bp	*14:153, 14:184 *14:17, 14:21, 14:30, 14:33, 14:35, 14:42, 14:53, 14:64-14:65, 14:72, 14:88, 14:95, 14:128, 14:132, 14:134, 14:179, 14:186-14:187, 14:208, 14:221	*03:01:01:01-03:01:22, 03:01:24-03:01:30, 03:04:01-03:05:03, 03:07:01-03:15:02, 03:18-03:25:02, 03:28-03:30, 03:32-03:34, 03:36-03:37, 03:39-03:40, 03:43-03:52:02, 03:54-03:59, 03:61-03:68N, 03:70-03:73, 03:76-03:79, 03:81, 03:83-03:84, 03:86, 03:89, 03:91, 03:93-03:101, 03:104-03:110, 03:112-03:114, 03:116-03:121, 03:123-03:130, 03:132-03:137, 03:139-03:153, 03:156N-03:157, 03:159-03:161, 03:163-03:166, 03:168-03:172, 11:01:01:01-11:01:06, 11:01:08-11:01:27, 11:01:28 [?] , 11:01:29-11:04:13, 11:04:15-11:04:20, 11:06:01-11:11:01, 11:11:03-11:16, 11:18-11:21, 11:23:01-11:29:02, 11:31-11:36, 11:38-11:40, 11:42:01-11:47, 11:49:01-11:49:02, 11:51, 11:53-11:55, 11:57-11:66:02, 11:68-11:70, 11:72-11:82, 11:84:01-11:87, 11:89-11:103:02, 11:105-11:106, 11:108-11:144, 11:146-11:148, 11:150-11:169N, 11:172-11:182, 11:185-11:188, 11:190-11:192, 11:194-11:199, 11:201-11:208, 11:210-11:228, 11:230-11:248Q, 11:250N-11:260, 11:262-11:263, 11:265-11:269, 13:01:01:01-13:01:08, 13:01:10-13:01:22, 13:01:24-13:02:17, 13:04-13:06, 13:09-13:11:02, 13:14:01-13:16, 13:18, 13:20-13:25, 13:27:01-13:31, 13:34, 13:39, 13:41-13:46, 13:50:01-13:52, 13:54, 13:56-13:57, 13:59, 13:61:01-13:64, 13:66:01-13:66:02, 13:68-13:69, 13:71, 13:73-13:75, 13:77-13:79, 13:82-13:83, 13:86-13:87, 13:91-13:93, 13:96:01-13:100, 13:102, 13:104-13:107, 13:109-13:114, 13:117, 13:119, 13:121, 13:123-13:132, 13:136-13:148, 13:150, 13:153-13:158, 13:162-13:163, 13:165-13:166, 13:168-13:173, 13:176, 13:178-13:179, 13:181, 13:184-13:187, 13:190, 13:192-13:193, 13:196-13:197, 13:199-13:213, 13:215, 13:217-13:218, 13:220-13:226, 13:229, 13:233-13:234, 13:236-13:245, 13:247, 13:249N-13:252N, 13:254-13:261, 13:263-13:291, 13:293-13:294, 13:296-13:298N

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

24⁴	85 bp	430 bp	*14:26, 14:166N	*11:177, 13:92
	125 bp		*14:36, 14:41, 14:77, 14:110, 14:218	*03:18, 03:43, 03:71:01, 11:76, 11:114, 11:183, 11:196, 13:34, 13:64, 13:136, 13:174, 13:204, 13:221, 13:250, DRB3*01:14
	165 bp		*14:90, 14:198	
25⁴	85 bp	430 bp	*14:55, 14:164, 14:173	*08:08, 08:15
	120 bp		*14:07:01-14:07:02, 14:22, 14:25:01-14:25:02, 14:49, 14:53, 14:68:01-14:69, 14:93, 14:119, 14:143, 14:164, 14:200, 14:208	*01:14, 04:62, 04:69, 08:08, 08:15, 13:45, 13:159, 13:179, DRB3*02:16, DRB5*01:73
	210 bp		*14:56, 14:84, 14:136	
	250 bp		*14:44:01-14:44:03	*03:35
26⁴	125 bp	515 bp	*14:59, 14:86, 14:96, 14:145, 14:153-14:154	*12:34
	250 bp		*14:01:01-14:01:05	
27	165 bp	515 bp	*14:141	DRB3*01:07, DRB3*01:21, DRB3*01:41, DRB3*01:50, DRB3*01:76, DRB3*02:01-02:08, DRB3*02:11, DRB3*02:13-02:37, DRB3*02:39-02:43, DRB3*02:45-02:77, DRB3*02:79-02:80N, DRB3*02:82, DRB3*02:84-02:92, DRB3*02:94-02:99, DRB3*02:101-02:103, DRB3*02:105, DRB3*02:107-02:114, DRB3*02:116- 02:118, DRB3*02:120-02:130, DRB3*02:132-02:142, DRB3*03:17 DRB3*02:58
	220 bp		*14:46	
28⁵	170 bp	430 bp	*14:11, 14:148	*08:31, 08:41, 08:63, 08:75, 11:67, 11:193:01-11:193:02, 11:209, 11:229, 11:270, 12:04, 12:49
	215 bp		*14:50, 14:76, 14:79, 14:93, 14:152N	*03:92, 08:67, 12:22
29⁴	125 bp	515 bp	*14:60, 14:97, 14:158, 14:221	*03:26, 03:33, 03:44, 03:153, 11:44, 11:49:01-11:50, 11:85, 11:127, 11:194, 11:249, 13:95, 13:106, 13:216, 13:266
	180 bp		*14:48, 14:174, 14:177, 14:195N	*03:38, 03:79, 03:85, 03:96, 13:31, 13:46, 13:54, 13:77, 13:100, 13:162, 13:180, 13:260, DRB3*01:14
	220 bp		*14:104, 14:111, 14:137N	*03:14-03:15:02, 03:90, 03:145, 11:105
30	160 bp	430 bp	*14:47, 14:98, 14:165	*03:01:02, 03:02:02, 03:05:03, 03:13:02, 03:24, 03:27, 03:81, 03:130, 03:167, 13:61:01, 13:96:02, DRB3*01:08, DRB3*01:46, DRB3*01:52, DRB3*01:71, DRB3*02:06, DRB3*02:20, DRB3*03:10
	190 bp		*14:06:01-14:06:04, 14:12:01- 14:12:02, 14:17-14:18, 14:21, 14:29, 14:33, 14:52, 14:59, 14:64, 14:78, 14:80-14:81, 14:83, 14:95, 14:106, 14:108, 14:121, 14:132- 14:133, 14:154, 14:165, 14:170, 14:176-14:177, 14:195N, 14:212	*03:01:01-03:01:30, 03:03, 03:06- 03:08, 03:10-03:13:02, 03:15:01-03:16, 03:18-03:20, 03:22-03:24, 03:26, 03:28, 03:32-03:34, 03:36-03:37, 03:39, 03:42, 03:45-03:48, 03:50-03:51, 03:52:02, 03:54-03:56, 03:58-03:62, 03:64-03:73, 03:76-03:80, 03:82-03:87, 03:89, 03:91- 03:101, 03:104, 03:106-03:114,

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

				03:116-03:117, 03:119-03:121, 03:124-03:129, 03:132-03:153, 03:156N-03:166, 03:168-03:172, 04:211, 04:230, 11:16, 11:40, 11:58:01, 11:59, 11:83, 11:113, 11:115, 11:182, 12:58, 13:01:01:01-13:01:28, 13:06, 13:09-13:10, 13:15, 13:18, 13:20, 13:27:01-13:28:02, 13:32, 13:35, 13:40, 13:42:01-13:43, 13:51, 13:53, 13:59, 13:61:01-13:61:02, 13:69, 13:71, 13:77-13:80, 13:87, 13:91-13:93, 13:98, 13:102, 13:105, 13:110-13:114, 13:117, 13:121, 13:125, 13:127, 13:129-13:131, 13:137N-13:138, 13:141, 13:144, 13:146, 13:148, 13:153, 13:156, 13:160, 13:163, 13:166, 13:173, 13:176-13:178, 13:181, 13:183-13:187, 13:190-13:193, 13:200N-13:201, 13:205, 13:213-13:215, 13:217-13:218, 13:221-13:223, 13:226, 13:233, 13:238, 13:242:01-13:242:02, 13:245, 13:248-13:249N, 13:251-13:252N, 13:254, 13:256, 13:258-13:263, 13:266-13:267, 13:270-13:274, 13:279, 13:281, 13:283, 13:287, 13:291, 13:294, 13:299, 15:32, DRB3*03:10
31⁴	80 bp	515 bp	*14:35, 14:53, 14:72, 14:128, 14:132, 14:138, 14:186, 14:208	*03:10, 11:31, 11:96, 11:148, 13:43, 13:45, 13:179, 13:217
32⁴	100 bp 150 bp	430 bp	*14:13, 14:63, 14:78, 14:85, 14:170 *14:19, 14:21, 14:47, 14:98, 14:109, 14:165	*03:12, 03:158, 13:32, 13:65, 13:93, 13:120, 13:139 *03:01:02, 03:02:02, 03:05:03, 03:13:02, 03:24, 03:27, 03:76, 03:81, 03:130, 03:167, 13:10, 13:61:01, 13:85, 13:96:02, 13:120, 13:170, 13:176, 13:178, 13:196, DRB3*01:08, DRB3*01:46, DRB3*01:52, DRB3*01:71, DRB3*02:06, DRB3*02:20, DRB3*03:10
33	175 bp	430 bp	*14:01:01-14:01:05, 14:07:01-14:08, 14:16, 14:22, 14:25:01-14:26, 14:32:01-14:32:03, 14:34-14:35, 14:38:01-14:39, 14:49, 14:53-14:55, 14:58, 14:60, 14:62, 14:69-14:70, 14:74-14:75, 14:82, 14:86-14:88, 14:90, 14:92N, 14:97, 14:99, 14:104-14:105, 14:110-14:114, 14:117-14:119, 14:122, 14:124-14:125, 14:128-14:129, 14:131-14:133, 14:137N, 14:139-14:140, 14:142, 14:146-14:147, 14:149-14:151, 14:153, 14:157-14:158, 14:162-14:164, 14:166N, 14:168, 14:171-14:173, 14:184-14:186, 14:189-14:193, 14:197N,	*03:10, 13:43, 13:45, 13:159, 13:179, 13:191, 13:217

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

			14:200, 14:202-14:204, 14:207-14:208, 14:211, 14:213-14:217, 14:219	
34	205 bp	515 bp	*14:04:01:01-14:04:07, 14:11, 14:28, 14:31, 14:50, 14:68:01-14:68:02, 14:71, 14:93, 14:120, 14:126:01-14:126:02, 14:138, 14:145, 14:148, 14:175, 14:180, 14:196, 14:201, 14:205-14:206, 14:210Q, 14:220	
35	250 bp	430 bp	*14:04:01:01-14:04:07, 14:11, 14:15, 14:28, 14:31, 14:50, 14:52, 14:71, 14:73, 14:76, 14:79, 14:107, 14:120, 14:126:01-14:126:02, 14:138, 14:145, 14:148, 14:152N, 14:175, 14:180, 14:196, 14:201, 14:205-14:206, 14:210Q, 14:220	*03:92, 08:04:01, 08:04:04-08:04:07, 08:06, 08:10, 08:12, 08:22, 08:28, 08:31, 08:54, 08:59, 08:67, 08:70, 08:75, 08:83, 08:94, 08:98-08:99, 11:67, 11:209, 11:229, 11:270, 12:01:01:01-12:15, 12:17-12:21, 12:23-12:38, 12:40-12:41, 12:43-12:56, 12:58-12:82, 13:17, 13:116, 13:175, 13:214
	280 bp		*14:113	*04:85
36⁴	120 bp	515 bp	*14:48, 14:63-14:64, 14:67, 14:78, 14:108-14:109, 14:115, 14:177	*03:13:01-03:13:02, 03:38, 03:58, 03:65, 03:79, 03:88, 03:125, 03:167, 11:16, 11:20, 12:58, 13:01:01:01-13:01:06, 13:01:08-13:02:09, 13:02:11-13:02:17, 13:06, 13:10, 13:15-13:16, 13:27:01-13:28:02, 13:31-13:32, 13:34-13:36, 13:39-13:41, 13:51, 13:53, 13:59, 13:61:01-13:61:02, 13:65, 13:67, 13:69, 13:73, 13:77-13:80, 13:85, 13:87, 13:91-13:93, 13:96:01-13:96:02, 13:98-13:99, 13:102-13:105, 13:109-13:110, 13:112-13:113N, 13:117, 13:120-13:121, 13:123-13:128, 13:130-13:131, 13:137N-13:139, 13:141-13:143, 13:145-13:148, 13:153, 13:155-13:157, 13:159-13:160, 13:163, 13:165-13:166, 13:168, 13:170-13:171:02, 13:173, 13:176-13:177, 13:179, 13:181, 13:183, 13:185N-13:187, 13:190-13:191, 13:198, 13:200N-13:202, 13:205, 13:207-13:215, 13:217-13:218, 13:220-13:222, 13:225-13:226, 13:233, 13:236-13:245, 13:248-13:249N, 13:251-13:252N, 13:254-13:275, 13:280-13:283, 13:285, 13:287-13:294, 13:297-13:299, DRB3*01:08, DRB3*01:46, DRB3*01:52, DRB3*01:71, DRB3*03:10
	155 bp		*14:18, 14:33, 14:51, 14:59, 14:64, 14:95, 14:106, 14:132-14:134, 14:154	*03:11:01, 03:97, 03:126
37⁴	90 bp 175 bp	430 bp	*14:166N	*03:08, 03:65, 03:140, 11:01:01:01-11:01:27, 11:01:28 [?] , 11:01:29-11:04:12, 11:04:14-11:04:20, 11:06:01-11:11:01, 11:11:03-11:21, 11:23:01-11:29:02,

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

				11:31-11:66:02, 11:68-11:70, 11:72-11:103:02, 11:105-11:192, 11:194-11:208, 11:210-11:228, 11:230-11:260, 11:262-11:263, 11:265-11:269
38	165 bp	515 bp	*14:05:01:01-14:05:01:02, 14:05:03-14:05:05, 14:37, 14:43-14:45, 14:56, 14:91, 14:96, 14:100, 14:103, 14:127:01-14:127:02, 14:136, 14:161, 14:167, 14:187	*03:35, 13:72
	215 bp		*14:37, 14:100	*11:218, 13:72
39	200 bp	430 bp	*14:01:01-14:01:05, 14:07:01-14:08, 14:14, 14:18, 14:23:01-14:23:04, 14:26, 14:32:01-14:32:02, 14:34-14:36, 14:38:01-14:38:02, 14:42, 14:54:01:01-14:54:09, 14:58-14:60, 14:62, 14:64-14:65, 14:70, 14:72, 14:75, 14:81-14:82, 14:86-14:88, 14:90, 14:92N, 14:95, 14:97, 14:99, 14:101, 14:110, 14:112-14:114, 14:117-14:118, 14:122-14:125, 14:129, 14:131-14:134, 14:139, 14:142, 14:147, 14:149-14:151, 14:153-14:155, 14:157-14:158, 14:160, 14:162-14:163, 14:166N, 14:168-14:169, 14:172, 14:178, 14:184-14:186, 14:190-14:193, 14:197N, 14:202, 14:204, 14:207-14:208, 14:211, 14:213-14:217, 14:219	*11:13:01-11:13:02, 11:17, 11:52, 11:89, 11:159, 11:202, 11:266
40	210 bp 250 bp	430 bp	*14:107, 14:152N *14:71	
41⁴	115 bp	515 bp	*14:91, 14:94, 14:97, 14:162, 14:185, 14:221	*03:04:01-03:04:02, 03:26, 03:33, 03:44, 11:29:01-11:29:02, 11:44, 11:47, 11:49:01-11:50, 11:63:01-11:63:02, 11:85, 11:127, 11:165:01-11:165:02, 11:249, 13:60, 13:84, 13:106, 13:216, 13:229, 13:266
	140 bp 165 bp 245 bp		*14:129 *14:90, 14:198 *14:75, 14:103	
42⁵	235 bp	515 bp	*14:01:01, 14:01:02 [?] -14:01:04 [?] , 14:01:05, 14:02:02 [?] -14:02:03 [?] , 14:02:06 [?] , 14:03:02 [?] , 14:04:01:01-14:04:01:02, 14:04:02 [?] -14:04:03 [?] , 14:04:04-14:04:06, 14:05:01:01-14:05:01:02, 14:05:02 [?] -14:05:04 [?] , 14:05:05, 14:06:02 [?] -14:06:03 [?] , 14:07:01, 14:07:02 [?] , 14:08, 14:10-14:11, 14:12:02 [?] , 14:14-14:15, 14:16 [?] , 14:18, 14:19 [?] -14:20 [?] , 14:22 [?] , 14:23:01, 14:23:02 [?] -14:23:04 [?] , 14:25:01 [?] -14:41 [?] , 14:43 [?] -14:45 [?] , 14:48 [?] -14:52 [?] , 14:54:01:01-14:54:06, 14:54:08-14:54:09,	*08:09:02, 11:03:04, 11:04:17, 11:13:01-11:13:02, 11:17, 11:149, 11:202, 11:264, 13:01:27, 13:08

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

			14:55 [?] -14:56 [?] , 14:57, 14:58 [?] -14:65 [?] , 14:67 [?] -14:81 [?] , 14:82, 14:83 [?] - 14:136 [?] , 14:137N, 14:138 [?] -14:140 [?] , 14:141, 14:142 [?] -14:143 [?] , 14:145 [?] - 14:151 [?] , 14:152N, 14:153 [?] -14:161 [?] , 14:162, 14:163 [?] -14:170 [?] , 14:171, 14:172 [?] -14:176 [?] , 14:178 [?] -14:190 [?] , 14:191-14:193, 14:196-14:197N, 14:199, 14:201-14:202, 14:203 [?] , 14:204-14:207, 14:210Q-14:211, 14:213-14:217, 14:219, 14:220 [?]	
43⁴	65 bp 95 bp 200 bp 225 bp	430 bp	*14:107, 14:111, 14:137N, 14:152N *14:101, 14:178, 14:205 *14:82, 14:95, 14:132 *14:188N	*03:01:17, 03:15:02, 03:97, 03:145 *03:01:17, 03:15:02, 03:145
44	215 bp 280 bp	515 bp	*14:70, 14:83, 14:155 *14:113	*15:03:01:01-15:03:05, 15:23, 15:54, 15:57, 15:94, 15:130, 15:137N, 15:142, 15:163N, 15:165, 15:178 *04:85
45⁴	65 bp 190 bp 225 bp	430 bp	*14:98 *14:45 *14:127:01	*08:67, 11:27:01, 11:84:01, 11:124:01, 11:138, 12:22, 13:33:02-13:33:03, 13:61:01, 13:94:02, 13:96:02, 16:46 *03:35
46⁴	105 bp 135 bp 165 bp 220 bp	515 bp	*14:92N *14:129, 14:158 *14:88 *14:87, 14:89, 14:197N	*03:153, 13:95 *03:157
47⁴	75 bp 215 bp 275 bp	430 bp	*14:153, 14:184 *14:163, 14:197N *14:114	 *03:165
48⁶	-	-	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 DRB1*14 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 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the longer, 515 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.

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: 5L2

Lot-specific information

³For several DRB1 alleles 1st and/or 3rd 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.

⁴HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

⁵Primer mixes 23, 28 and 42 may have tendencies of unspecific amplifications.

⁶Primer mix 48 contains a negative control, which will amplify the majority of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 200 base pairs.

Abbreviations

w: might be weakly amplified.

?: nucleotide sequence information not available for the primer matching sequence.

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	215	180	140	85	260	260	200	170	130	180	85	225
Length of int. pos. control ¹	515	430	430	430	515	515	430	430	430	430	430	515
5'-primer(s) ²	13(125) 5'-gTC 3'	13(125) 5'-gTC 3'	37(196) 5'-AgA 3'	13(125) 5'-gTC 3'	13(125) 5'-gTC 3'	13(125) 5'-gTC 3'	13(125) 5'-gTC 3'	13(125) 5'-ggg 3'	16(135) 5'-CAA 3'	6(103) 5'-CAT 3'	60(265) 5'-AgC 3'	13(125) 5'-gTC 3'
								16(133) 5'-gTT 3'	57(256) 5'-CTA 3'	11(118) 5'-ACC 3'		
										13(125) 5'-ACA 3'		
3'-primer(s) ³	70(296) 5'-TCC 3'	57(257) 5'-CAG 3'	70(295) 5'-CTg 3'	28(171) 5'-CTC 3'	86(344) 5'-CAC 3'	86(344) 5'-CCA 3'	67(286) 5'-gAT 3'	57(257) 5'-CAG 3'	86(344) 5'-CCA 3'	57(257) 5'-CAG 3'	74(307) 5'-CgC 3'	74(308) 5'-CCT 3'
	72(303) 5'-gCg 3'	60(265) 5'-gTg 3'	71(298) 5'-CTT 3'				74(307) 5'-CAG 3'					74(308) 5'-CCT 3'
												74(308) 5'-CCT 3'
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product	115	60	185	105	220	85	145	110	170	145	75	85
		130						160	215		155	125
								215	275			165
Length of int. pos. control ¹	430	515	430	430	430	430	430	430	515	430	430	430
5'-primer(s) ²	34(189) 5'-CAG 3'	37(196) 5'-AgA 3'	37(196) 5'-AgA 3'	57(258) 5'-gAT 3'	13(125) 5'-gTC 3'	13(125) 5'-gTC 3'	37(197) 5'-gTT 3'	16(133) 5'-gTT 3'	13(125) 5'-gTC 3'	13(125) 5'-gTC 3'	13(125) 5'-gTC 3'	13(125) 5'-gTC 3'
		37(196) 5'-AgA 3'	37(197) 5'-gTT 3'	57(258) 5'-gAC 3'				34(189) 5'-CAA 3'				
		60(265) 5'-AgC 3'										
3'-primer(s) ³	60(265) 5'-gTg 3'	67(286) 5'-gAA 3'	85(341) 5'-CAG 3'	78(321) 5'-CAA 3'	69(292) 5'-CTg 3'	28(171) 5'-CTg 3'	71(298) 5'-CTC 3'	57(257) 5'-CAG 3'	57(256) 5'-gCT 3'	47(227) 5'-ggT 3'	24(157) 5'-CAA 3'	25(161) 5'-ACT 3'
					71(298) 5'-CTT 3'	28(171) 5'-CTg 3'	74(307) 5'-CAG 3'	74(307) 5'-CAG 3'	71(298) 5'-CgC 3'		47(227) 5'-ggA 3'	29(172) 5'-TCT 3'
					77(316) 5'-ggC 3'	30(177) 5'-AAA 3'			91(359) 5'-gCg 3'		55(251) 5'-gCT 3'	38(199) 5'-CAG 3'
												45(220) 5'-CCg 3'
												55(250) 5'-CCC 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	85	125	165	170	125	160	80	100	175	205	250	120
PCR product	120	250	220	215	180	190		150			280	155
	210				220							
	250											
Length of int.	430	515	515	430	515	430	515	430	430	515	430	515
pos. control ¹												
5'-primer(s) ²	16(135) 5' -CAA 3'	51(239) 5' -gAg 3'	10(116) 5' -gCT 3'	16(133) 5' -gTT 3'	13(125) 5' -gTC 3'	37(196) 5' -AgA 3'	47(227) 5' -gTT 3'	37(196) 5' -AgA 3'	13(125) 5' -gTC 3'	16(133) 5' -gTT 3'	6(103) 5' -CAA 3'	37(196) 5' -AgA 3'
	60(265) 5' -AgC 3'	112(421) 5' -ACT 3'									16(133) 5' -gTT 3'	
3'-primer(s) ³	73(304) 5' -ggA 3'	78(321) 5' -CAA 3'	51(239) 5' -CCC 3'	58(260) 5' -CCT 3'	38(200) 5' -gCg 3'	77(317) 5' -AAT 3'	60(265) 5' -gTg 3'	57(256) 5' -gCT 3'	58(260) 5' -CCg 3'	70(296) 5' -TCC 3'	86(344) 5' -CCA 3'	60(266) 5' -Agg 3'
	74(308) 5' -CCA 3'	181(630) 5' -CTT 3'	70(295) 5' -CTg 3'	72(301) 5' -CCg 3'	43(214) 5' -gTA 3'	86(344) 5' -CCA 3'		71(298) 5' -CTT 3'				67(286) 5' -gAT 3'
	86(344) 5' -CAC 3'			77(317) 5' -AgT 3'	45(220) 5' -CCT 3'			77(317) 5' -AAT 3'				67(286) 5' -gAT 3'
				77(318) 5' -TAA 3'	57(257) 5' -CgA 3'							67(286) 5' -gAA 3'
					60(267) 5' -CAC 3'							74(308) 5' -CCT 3'
					72(301) 5' -CCg 3'							
					73(305) 5' -ggC 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
Length of spec.	90	165	200	210	115	235	65	215	65	105	75
PCR product	175	215		250	140		95	280	190	135	215
					165		200		225	165	275
					245		225			220	
Length of int.	430	515	430	430	515	515	430	515	430	515	430
pos. control ¹											
5'-primer(s) ²	13(125) 5' -gTC 3'	16(135) 5' -CAA 3'	16(135) 5' -CAT 3'	16(133) 5' -gTT 3'	13(125) 5' -gTC 3'	114(429) 5' -CTg 3'	16(135) 5' -TAA 3'	6(103) 5' -CAA 3'	16(135) 5' -CAA 3'	13(125) 5' -gTC 3'	13(125) 5' -gTC 3'
							26(164) 5' -gTA 3'	27(166) 5' -TCA 3'	70(295) 5' -AAg 3'		
							60(265) 5' -AgT 3'	30(175) 5' -gAC 3'			
							71(299) 5' -gAA 3'				
3'-primer(s) ³	29(172) 5' -TCT 3'	58(261) 5' -TCA 3'	70(296) 5' -TCC 3'	72(301) 5' -CCg 3'	37(197) 5' -Cg 3'	179(624) 5' -ACg 3'	78(321) 5' -CAA 3'	86(344) 5' -CCA 3'	67(286) 5' -gAT 3'	35(190) 5' -CTA 3'	24(157) 5' -CAA 3'
	58(260) 5' -CCT 3'	74(308) 5' -CCg 3'		73(305) 5' -ggC 3'	38(200) 5' -gCg 3'				77(317) 5' -AAT 3'	43(214) 5' -gTA 3'	69(292) 5' -CTg 3'
	58(260) 5' -CCT 3'			86(343) 5' -CAT 3'	46(224) 5' -ACC 3'					46(224) 5' -ACC 3'	74(307) 5' -CTA 3'
	58(260) 5' -CCT 3'				55(250) 5' -CCC 3'					55(251) 5' -gCT 3'	91(359) 5' -gCg 3'
					81(328) 5' -gTA 3'					70(295) 5' -CTg 3'	
										74(307) 5' -CTA 3'	
										75(310) 5' -CAT 3'	
Well No.	37	38	39	40	41	42	43	44	45	46	47

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the longer, 515 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.

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

CELL LINE VALIDATION SHEET																					
DRB1*14 SSP subtyping kit ²																					
					Well ³																
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:		201912701	201912702	201912703	201912704	201912705	201912706	201912707	201912708	201912709	201912710	201912711	201912712	201912713	201912714	201912715	201912716
	IHCW cell line ¹		DRB1																		
1	9001	SA	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*15:02	*04:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*03:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*04:07	*08:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*03:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*04:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*11:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*13:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*09:01	*11:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*12:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*13:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*14:02		-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*13:02	*14:54	+	+	-	-	+	+	-	-	-	-	-	-	+	+	-	-	-
23	9124	IHL	*08:03	*14:14	+	-	-	-	+	-	-	-	-	-	-	-	+	-	-	-	+
24	9035	JBUSH	*11:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*03:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*04:05	*10:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*04:16	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*03:02		-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*03:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*13:03		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*04:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*11:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*04:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*04:03	*04:06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*13:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*14:02		-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*03:01	*04:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*07:01	*09:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*13:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*08:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*14:01		+	+	-	-	-	+	-	-	-	-	-	-	+	+	-	-	-
45	9239	SHJO	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*11:04	*12:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*01:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

CELL LINE VALIDATION SHEET																																
DRB1*14 SSP subtyping kit ²																																
					Well ³																											
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32												
				Prod. No.:	201912717	201912718	201912719	201912720	202023921	201912722	201912723	201912724	201912725	201912726	201912727	201912728	201912729	201912730	201912731	201912732												
	IHWC cell line ¹	DRB1																														
1	9001 SA	*01:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
2	9280 LK707	*15:02	*04:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
3	9011 E4181324	*15:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
4	9275 GU373	*03:01			-	+	-	-	-	-	+	-	-	-	+	-	-	+	-	-	-											
5	9009 KAS011	*16:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
6	9353 SM	*04:07	*08:03		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-											
7	9020 QBL	*03:01			-	+	-	-	-	-	+	-	-	-	+	-	-	+	-	-	-											
8	9025 DEU	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
9	9026 YAR	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
10	9107 LKT3	*04:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
11	9051 PITOUT	*07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
12	9052 DBB	*07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
13	9004 JESTHOM	*01:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
14	9071 OLGA	*08:02			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-											
15	9075 DKB	*09:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
16	9037 SWEIG007	*11:01			-	+	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-											
17	9282 CTM3953540	*03:01	*13:01		-	+	-	-	-	-	+	-	-	-	-	-	-	+	-	-	-											
18	9257 32367	*09:01	*11:01		-	+	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-											
19	9038 BM16	*12:01			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-											
20	9059 SLE005	*13:02			-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-											
21	9064 AMALA	*14:02			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-											
22	9056 KOSE	*13:02	*14:54		-	+	-	-	-	+	+	-	-	-	+	-	-	-	-	-	-											
23	9124 IHL	*08:03	*14:14		-	+	-	+	-	+	-	-	-	-	+	-	-	-	-	-	-											
24	9035 JBUSH	*11:01			-	+	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-											
25	9049 IBW9	*07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
26	9285 WT49	*03:01			-	+	-	-	-	-	+	-	-	-	+	-	-	+	-	-	-											
27	9191 CH1007	*04:05	*10:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
28	9320 BEL5GB	*04:16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
29	9050 MOU	*07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
30	9021 RSH	*03:02			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-											
31	9019 DUCAF	*03:01			-	+	-	-	-	-	+	-	-	-	+	-	-	+	-	-	-											
32	9297 HAG	*13:03			+	+	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-											
33	9098 MT14B	*04:04			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
34	9104 DHIF	*11:01			-	+	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-											
35	9302 SСТО	*04:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
36	9024 KT17	*04:03	*04:06		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
37	9065 HHKB	*13:01			-	+	-	-	-	-	+	-	-	-	-	-	-	+	-	-	-											
38	9099 LZL	*14:02			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-											
39	9315 CML	*03:01	*04:01		-	+	-	-	-	-	+	-	-	-	-	-	-	+	-	-	-											
40	9134 WHONP199	*07:01	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
41	9055 H0301	*13:02			-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-											
42	9066 TAB089	*08:03			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-											
43	9076 T7526	*09:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
44	9057 TEM	*14:01			-	+	-	-	-	+	-	-	-	-	+	+	-	-	-	-	-											
45	9239 SHJO	*07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
46	9013 SCHU	*15:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
47	9045 TUBO	*11:04	*12:01		-	+	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-											
48	9303 TER-ND	*01:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

CELL LINE VALIDATION SHEET																			
DRB1*14 SSP subtyping kit ²																			
					Well ³														
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
				Prod. No.:	201912733	201912734	201912735	201912736	201912737	201912738	201912739	201912740	201912741	201912742	202023943	201912744	201912745	201912746	202023947
	IHCW cell line ¹		DRB1																
1	9001	SA	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*15:02	*04:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*04:07	*08:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*04:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*11:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*13:01	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*09:01	*11:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*12:01		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*13:02		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*13:02	*14:54	+	-	-	+	-	-	+	-	-	+	-	-	-	-	-
23	9124	IHL	*08:03	*14:14	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-
24	9035	JBUSH	*11:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*04:05	*10:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*04:16	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*03:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*13:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*04:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*11:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*04:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*04:03	*04:06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*13:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*03:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*07:01	*09:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*13:02		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*08:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*14:01		+	-	-	-	-	-	+	-	-	+	-	-	-	-	-
45	9239	SHJO	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*11:04	*12:01	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*01:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

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.

³Primer mix 27 will amplify the DRB3*02:02 alleles in the GU373, QBL, SWEIG007, CH1007, DUCAF, DHIF, TEM and TUBO cell lines.

No DNAs carrying the alleles to be amplified by primer solutions 10, 11, 14, 15, 19, 24, 29, 31, 40, 43 and 45 to 47 were available. The specificities of the primers in primer solutions 10, 11, 14, 15, 19, 24, 29, 31, 43 and 45 were tested by separately adding one or two additional 5'-primers, and one or two additional 3'-primers accordingly. In primer solutions 40, 46 and 47 it was only possible to test the 5'-primer, the 3'-primers were not possible to be tested. In primer solutions 10, 14, 35, 43 and 44 one or two of the 5'-primers were not possible to be test, and in primer solutions 7, 17, 18, 21 to 25, 28, 29, 36, 37, 41 and 45 one or more of the 3'-primers were not possible to be tested. In addition, one or more 5'- and/or 3'-primers in primer solutions 1, 12, 16, 21, 25 to 28, 30, 32, 36, 38 and 41 were tested by separately adding one or two 3'-primers and/or one 5'-primer respectively.

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **5L2**

Lot-specific information

ADDRESSES:

Manufacturer:

CareDx AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Tel: +46-8-508 939 00

Fax: +46-8-717 88 18

E-mail: orders-se@caredx.com

Web page: <https://labproducts.caredx.com/>

Distributed by:

CareDx GmbH, Löwengasse 47 / 6, AT-1030 Vienna, Austria.

Tel: +43-1-710 15 00

Fax: +43-1-710 15 00 10

E-mail: orders-at@caredx.com

Web page: <https://labproducts.caredx.com/>

CareDx Lab Solutions Inc., 901 S. Bolmar St., Suite R, West Chester, PA 19382

Tel: 1-877-653-78171

Fax: 610-344-7989

E-mail: orders-us@caredx.com

Web page: <https://labproducts.caredx.com/>

For information on CareDx distributors worldwide, contact **CareDx GmbH**.