

101.614-12 – including *Taq* polymerase
101.614-12u – without *Taq* polymerase

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

Lot No.: **0S3**

Lot-specific information

Olerup SSP® HLA-C*06

Product number:	101.614-12 – including <i>Taq</i> polymerase 101.614-12u – without <i>Taq</i> polymerase
Lot number:	0S3
Expiry date:	2027-04-01
Number of tests:	12
Number of wells per test:	63+1
Storage - pre-aliquoted primers:	dark, between -15°C and -25°C
- PCR Master Mix:	between -15°C and -25°C
- Adhesive PCR seals	RT

This Product Description is only valid for Lot No. 0S3.

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-C*06 LOT (4R0)

- The product documentation has been updated for new alleles of IMGT 3.51.0
- The kit resolution focuses on common and well documented (CWD) alleles¹.

¹As described in section Uniquely Identified Alleles.

The HLA-C*06 primer set, specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP®* HLA-C*06 lot was made (**Lot No. 4R0**).

The HLA-C*06 primer set is unchanged compared to the previous *Olerup SSP®* HLA-C*06 (**Lot No. 4R0**).

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



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Well **64** contains Negative Control primer pairs, that will amplify a 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'-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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PRODUCT DESCRIPTION

HLA-C*06 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C*06:02 to HLA-C*06:362N alleles.

PLATE LAYOUT

Each test consists of 64 PCR reactions in a 64 well 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	47	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	NC

The 64 well cut PCR plate is marked with ‘HLA-C*06’ in silver/gray ink.
Well No. 1 is marked with the Lot No. ‘0S3’.

Wells 1 to 63 – HLA-C*06 high resolution primers.

Well 64 – 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-C alleles, non-HLA-C*06 alleles will be amplified by some primer mixes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-C*06 alleles, i.e. **C*06:02 to C*06:362N**, recognized by the HLA Nomenclature Committee in January 2023¹ will be amplified by the primers in the HLA-C*06 SSP kit^{2,3}.

The HLA-C*06 kit enables separation of the confirmed HLA-C*06 alleles as listed in the IMGT/HLA database 3.24.0. 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 HLA-C*06 alleles is listed below.



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The HLA-C*06 kit also enables identification of many null and alternatively expressed alleles.

The following HLA-C*06 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
C*06:07, 06:33	7	C*06:49N, 06:148	37
C*06:15, 06:116N	15	C*06:54, 06:133	40
C*06:16N, 06:21	16	C*06:57, 06:58	36
C*06:20, 06:74Q	34	C*06:66, 06:71	32
C*06:25, 06:36	21	C*06:70:01-06:70:02, 06:73	38
C*06:27, 06:29	20		

¹HLA-C alleles listed on the IMGT/HLA web page 2023-January-12, release 3.51.0, 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 HLA-C*06 primer set cannot separate the following alleles. These alleles can be distinguished by the HLA-C low resolution kit and/or respective high resolution kit.

Alleles

C*06:76:02, C*04:360, 04:477

C*06:127:01-06:127:02, 06:264, C*04:220



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ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*06:02:01:01	Confirmed	C*06:05	Unconfirmed	C*06:52	Unconfirmed	C*06:99	Unconfirmed
C*06:02:01:02	Confirmed	C*06:06	Confirmed	C*06:53:01	Unconfirmed	C*06:100	Confirmed
C*06:02:01:03	Confirmed	C*06:07	Confirmed	C*06:53:02	Unconfirmed	C*06:101	Confirmed
C*06:02:03	Confirmed	C*06:08	Unconfirmed	C*06:54	Confirmed	C*06:102	Unconfirmed
C*06:02:04	Confirmed	C*06:09	Confirmed	C*06:55	Unconfirmed	C*06:103	Confirmed
C*06:02:05	Confirmed	C*06:10	Unconfirmed	C*06:56	Unconfirmed	C*06:104	Confirmed
C*06:02:06	Confirmed	C*06:11	Confirmed	C*06:57	Confirmed	C*06:105	Unconfirmed
C*06:02:07	Confirmed	C*06:12	Confirmed	C*06:58	Confirmed	C*06:106:01	Unconfirmed
C*06:02:08	Confirmed	C*06:13	Unconfirmed	C*06:59	Confirmed	C*06:106:02	Confirmed
C*06:02:09	Confirmed	C*06:14	Confirmed	C*06:60	Confirmed	C*06:107	Confirmed
C*06:02:10	Unconfirmed	C*06:15	Confirmed	C*06:61	Unconfirmed	C*06:108	Unconfirmed
C*06:02:11	Unconfirmed	C*06:16N	Unconfirmed	C*06:62	Unconfirmed	C*06:109	Unconfirmed
C*06:02:12	Confirmed	C*06:17	Unconfirmed	C*06:63	Unconfirmed	C*06:110	Unconfirmed
C*06:02:13	Unconfirmed	C*06:18	Confirmed	C*06:64	Unconfirmed	C*06:111	Unconfirmed
C*06:02:14	Unconfirmed	C*06:19	Unconfirmed	C*06:65	Confirmed	C*06:112	Unconfirmed
C*06:02:15	Confirmed	C*06:20	Unconfirmed	C*06:66	Confirmed	C*06:113	Unconfirmed
C*06:02:16	Confirmed	C*06:21	Unconfirmed	C*06:67	Unconfirmed	C*06:114	Unconfirmed
C*06:02:17	Unconfirmed	C*06:22	Unconfirmed	C*06:68	Unconfirmed	C*06:115	Unconfirmed
C*06:02:18	Unconfirmed	C*06:23	Confirmed	C*06:69	Confirmed	C*06:116N	Unconfirmed
C*06:02:19	Unconfirmed	C*06:24	Confirmed	C*06:70:01	Confirmed	C*06:117	Unconfirmed
C*06:02:20	Unconfirmed	C*06:25	Unconfirmed	C*06:70:02	Unconfirmed	C*06:118	Unconfirmed
C*06:02:21	Unconfirmed	C*06:26	Confirmed	C*06:71	Confirmed	C*06:119	Unconfirmed
C*06:02:22	Confirmed	C*06:27	Confirmed	C*06:72	Unconfirmed	C*06:120	Confirmed
C*06:02:23	Unconfirmed	C*06:28	Confirmed	C*06:73	Unconfirmed	C*06:121	Unconfirmed
C*06:02:24	Unconfirmed	C*06:29	Unconfirmed	C*06:74Q	Unconfirmed	C*06:122	Confirmed
C*06:02:25	Unconfirmed	C*06:30	Confirmed	C*06:75	Unconfirmed	C*06:123	Unconfirmed
C*06:02:26	Unconfirmed	C*06:31	Unconfirmed	C*06:76:01	Confirmed	C*06:124	Confirmed
C*06:02:27	Unconfirmed	C*06:32	Confirmed	C*06:76:02	Unconfirmed	C*06:125	Unconfirmed
C*06:02:28	Unconfirmed	C*06:33	Confirmed	C*06:77	Unconfirmed	C*06:126	Confirmed
C*06:02:29	Unconfirmed	C*06:34:01	Confirmed	C*06:78	Unconfirmed	C*06:127:01	Confirmed
C*06:02:30	Unconfirmed	C*06:34:02	Unconfirmed	C*06:79N	Unconfirmed	C*06:127:02	Unconfirmed
C*06:02:31	Confirmed	C*06:35	Confirmed	C*06:80	Unconfirmed	C*06:128N	Unconfirmed
C*06:02:32	Confirmed	C*06:36	Unconfirmed	C*06:81	Confirmed	C*06:129	Confirmed
C*06:02:33	Confirmed	C*06:37	Confirmed	C*06:82	Unconfirmed	C*06:130	Unconfirmed
C*06:02:34	Confirmed	C*06:38	Confirmed	C*06:83	Unconfirmed	C*06:131	Unconfirmed
C*06:02:35	Unconfirmed	C*06:39	Unconfirmed	C*06:84	Unconfirmed	C*06:132:01	Confirmed
C*06:02:36	Unconfirmed	C*06:40	Unconfirmed	C*06:85	Unconfirmed	C*06:132:02	Unconfirmed
C*06:02:37	Confirmed	C*06:41	Unconfirmed	C*06:86	Confirmed	C*06:133	Confirmed
C*06:02:38	Unconfirmed	C*06:42:01	Unconfirmed	C*06:87	Confirmed	C*06:134N	Unconfirmed
C*06:02:39	Unconfirmed	C*06:42:02	Unconfirmed	C*06:88	Unconfirmed	C*06:135	Unconfirmed
C*06:02:40	Unconfirmed	C*06:43:01	Confirmed	C*06:89	Unconfirmed	C*06:136	Confirmed
C*06:02:41	Unconfirmed	C*06:43:02	Unconfirmed	C*06:90	Unconfirmed	C*06:137	Unconfirmed
C*06:02:42	Unconfirmed	C*06:44	Unconfirmed	C*06:91	Unconfirmed	C*06:138	Confirmed
C*06:02:43	Unconfirmed	C*06:45	Unconfirmed	C*06:92	Unconfirmed	C*06:139	Confirmed
C*06:02:44	Unconfirmed	C*06:46N	Unconfirmed	C*06:93	Confirmed	C*06:140	Confirmed
C*06:02:45	Unconfirmed	C*06:47	Confirmed	C*06:94	Unconfirmed	C*06:141	Unconfirmed
C*06:03:01	Unconfirmed	C*06:48	Unconfirmed	C*06:95	Unconfirmed	C*06:142	Confirmed
C*06:03:02	Confirmed	C*06:49N	Confirmed	C*06:96	Confirmed	C*06:143	Unconfirmed
C*06:04:01	Confirmed	C*06:50	Confirmed	C*06:97	Unconfirmed	C*06:144	Unconfirmed
C*06:04:02	Confirmed	C*06:51	Unconfirmed	C*06:98	Unconfirmed	C*06:145	Unconfirmed



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C*06:146	Unconfirmed	C*06:156	Unconfirmed	C*06:166	Unconfirmed
C*06:147	Unconfirmed	C*06:157	Unconfirmed	C*06:167	Unconfirmed
C*06:148	Confirmed	C*06:158	Confirmed	C*06:168	Unconfirmed
C*06:149	Unconfirmed	C*06:159	Unconfirmed	C*06:169	Unconfirmed
C*06:150	Unconfirmed	C*06:160	Unconfirmed	C*06:170	Unconfirmed
C*06:151	Confirmed	C*06:161	Unconfirmed	C*06:171N	Unconfirmed
C*06:152N	Unconfirmed	C*06:162	Unconfirmed	C*06:172	Unconfirmed
C*06:153	Unconfirmed	C*06:163	Unconfirmed	C*06:173	Unconfirmed
C*06:154	Unconfirmed	C*06:164	Unconfirmed	C*06:174	Unconfirmed
C*06:155	Unconfirmed	C*06:165	Unconfirmed	C*06:175N	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-C*06 homo- and heterozygotes is available upon request.



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SPECIFICITY TABLE

HLA-C*06 SSP subtyping

Specificities and sizes of the PCR products of the 63+1 primer mixes used for
HLA-C*06 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-C*06 alleles ³	Other amplified HLA Class I alleles
1	240 bp	800 bp	*06:02:01:01-06:02:01:93, 06:02:03-06:02:103, 06:04:01-06:16N, 06:18-06:75, 06:78-06:131, 06:133-06:187, 06:189-06:235, 06:237-06:243, 06:245-06:328, 06:330-06:362N	*03:39, 03:67, 03:344:01:01-03:344:01:02, 04:42:01-04:42:02, 04:220, 05:43, 07:741, 07:818, 07:969, 08:37, 12:16:01-12:16:02, 12:147, 12:195:01-12:195:03, 12:217, 14:147, 16:21, 16:80, 17:20 ⁷
2	220 bp	800 bp	*06:02:01:01-06:02:01:93, 06:02:03-06:03:02, 06:07-06:13, 06:15-06:34:02, 06:36-06:39, 06:41-06:71, 06:73-06:78, 06:80, 06:82-06:100, 06:102:01-06:117, 06:119-06:122, 06:124-06:126, 06:128N-06:135, 06:137-06:142, 06:145-06:152N, 06:154-06:196, 06:198-06:202, 06:205-06:263N, 06:265-06:270, 06:272-06:303, 06:305-06:316N, 06:318-06:357N, 06:359N-06:362N	*01:04, 01:09:01-01:09:02, 01:244, 02:05:01-02:05:03, 02:17, 04:360, 04:477, 12:03:01:01-12:07, 12:11-12:13:01:02, 12:15, 12:23, 12:25-12:26, 12:28-12:29, 12:31:01-12:35, 12:37-12:39N, 12:42Q-12:43, 12:45-12:48, 12:50-12:55, 12:57:01-12:63, 12:65-12:66, 12:70-12:71, 12:75-12:79, 12:81-12:82, 12:87-12:95, 12:97-12:102, 12:107-12:111, 12:113, 12:115-12:116, 12:119-12:122, 12:125, 12:129, 12:131, 12:133, 12:135, 12:138-12:141, 12:143-12:144, 12:147, 12:149-12:150, 12:152, 12:154, 12:156-12:160, 12:163, 12:165, 12:167, 12:170-12:174, 12:176, 12:178, 12:180, 12:182, 12:184-12:187, 12:189-12:192, 12:194-12:195:03, 12:197, 12:199, 12:201-12:203, 12:205-12:206, 12:209-12:211, 12:213, 12:215-12:216, 12:218, 12:220, 12:223, 12:225, 12:227, 12:229-12:230, 12:232N, 12:235, 12:237-12:238, 12:242, 12:244-12:246, 12:248-12:249, 12:253-12:254, 12:256-12:257, 12:259-12:260:02, 12:262, 12:264-12:267, 12:269, 12:271-12:274:01N, 12:276-12:278, 12:282-12:284, 12:286, 12:288-12:293, 12:295N, 12:297, 12:300-12:302, 12:305-12:306, 12:310-12:314, 12:316-12:326, 12:328, 12:330Q-12:334, 12:337, 12:339-12:343N, 12:345N-12:350, 12:352-12:358, 12:360-12:361, 12:364-12:370, 12:372-12:376, 14:16, 16:04:01:01-16:04:01:03, 16:04:03-16:04:05, 16:29, 16:33, 16:42, 16:55, 16:61, 16:66, 16:78, 16:82, 16:91, 16:109, 16:124, 16:149-16:150, 16:182, 16:203, B*15:510, B*35:475, B*46:84



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3	135 bp	1070 bp	*06:03:01, 06:18, 06:132:01-06:132:02	*01:169:02, 02:02:13, 02:02:29, 03:02:01- 03:02:09, 03:02:11-03:03:20, 03:03:22-03:03:50, 03:03:52-03:03:63, 03:03:65-03:04:14, 03:04:16- 03:04:24, 03:04:27-03:11:02, 03:13:01:01- 03:17:02, 03:18:02-03:38:02, 03:40:01-03:64:01, 03:65-03:66, 03:67 ^w , 03:68-03:98, 03:100-03:117, 03:119:01-03:136, 03:138-03:143, 03:146-03:155, 03:157-03:165:02, 03:167-03:169Q, 03:171, 03:173-03:181, 03:183-03:194, 03:196-03:230, 03:232-03:247, 03:249-03:263:03, 03:265N- 03:277N, 03:278 ^w , 03:279-03:294, 03:295 ^w , 03:296:01-03:323N, 03:325-03:341, 03:343, 03:345-03:453, 03:455-03:458, 03:460-03:478, 03:480-03:503, 03:505-03:529, 03:531N-03:556, 03:558-03:565, 03:566 ^w , 03:567-03:600, 03:602- 03:609, 03:611-03:627, 04:03:09, 07:96:01- 07:96:02, 07:272, 07:314:02, 07:326, 07:578, 07:756, 07:898, 07:1037N, 15:02:10, 15:02:17, 15:43, B*46:77
4	250 bp	1070 bp	*06:04:01- 06:04:02:02, 06:118, 06:153:01- 06:153:02, 06:197	*01:22, 01:35, 01:131, 01:160, 01:226, 05:11, 05:17, 05:27, 05:68, 05:79, 05:115, 05:134, 05:151, 05:184, 08:01:01:01-08:01:07, 08:01:09- 08:01:35, 08:03:01:01-08:04:03, 08:06, 08:08:01- 08:11, 08:13-08:14, 08:16:01-08:16:02, 08:20- 08:22:02, 08:24, 08:26N, 08:36N, 08:38-08:42, 08:44, 08:46, 08:50, 08:54, 08:56-08:61, 08:65- 08:66, 08:72:01-08:72:02, 08:78-08:89N, 08:91, 08:93, 08:95-08:97, 08:99, 08:101-08:102, 08:104-08:106, 08:109, 08:113, 08:117, 08:119, 08:121N-08:122, 08:124, 08:127N-08:131, 08:133, 08:135-08:139, 08:141Q, 08:143-08:145, 08:147-08:148, 08:153-08:155, 08:157, 08:162- 08:165, 08:168, 08:173N-08:178, 08:182, 08:186- 08:190, 08:192-08:194, 08:196-08:197, 08:199, 08:203-08:205, 08:208N-08:210, 08:212-08:213, 08:217, 08:219-08:221, 08:228, 08:232, 08:234- 08:236N, 08:241, 08:243-08:244, 08:249-08:255, 08:259-08:261, 12:14:01-12:14:02, 12:18:01- 12:18:02, 12:20, 12:83, 12:169, 12:175, 14:06, 14:15, 14:53, 14:77, 14:87, 15:02:01:01-15:02:43, 15:02:45-15:05:07, 15:05:09-15:07:01:02, 15:09:01:01-15:13:02, 15:15-15:19, 15:21-15:24, 15:26-15:50, 15:52:01-15:73, 15:76-15:83, 15:85- 15:101, 15:103-15:142, 15:144-15:147, 15:149- 15:213N, 15:215-15:255, 16:35, 16:40, 16:48, 16:110, 17:01:01:02-17:16:02, 17:18-17:64Q, 17:66-17:69
5	160 bp	800 bp	*06:05, 06:67, 06:103	*02:94, 04:129, 05:01:01:01-05:01:27, 05:01:28 ^w , 05:01:29-05:01:72, 05:03-05:28, 05:30-05:47, 05:49-05:91N, 05:93-05:128N, 05:130-05:154N, 05:156-05:189, 05:191-05:194, 05:196, 05:198- 05:244N, 05:246-05:277, 08:10, 12:21, 12:33, 15:107, 15:178, 17:05
	220 bp		*06:18, 06:23, 06:179	*01:04, 01:09:01-01:09:02, 01:244, 02:21, 12:178, B*46:84



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6	250 bp	1070 bp	*06:05-06:06:01:02, 06:204, 06:271	*01:02:01:01-01:02:77, 01:02:79-01:03:03, 01:05-01:07:01, 01:08, 01:10-01:20, 01:23-01:34, 01:36:01-01:130, 01:132-01:159, 01:161-01:168, 01:169:02-01:214, 01:216-01:225, 01:227-01:243, 01:245-01:247, 03:607, 04:110 ² , 05:01:01:01-05:01:62, 05:01:64-05:01:72, 05:03-05:07N, 05:09:01-05:10, 05:12-05:16, 05:18:01-05:26, 05:28-05:50, 05:53-05:61, 05:63-05:67, 05:69, 05:71-05:78:02, 05:80-05:88, 05:90-05:105, 05:107-05:111, 05:113N-05:114, 05:116-05:133, 05:135-05:145, 05:147-05:150, 05:152-05:162, 05:164-05:183, 05:185-05:244N, 05:246-05:277, 08:02:01:01-08:02:38, 08:05, 08:07, 08:12:01:01-08:12:01:02, 08:15:01-08:15:02, 08:17-08:19:02, 08:23, 08:25, 08:28, 08:30, 08:32-08:35, 08:37, 08:43, 08:45, 08:47-08:49, 08:51-08:53, 08:55N, 08:62:01-08:63, 08:67-08:71, 08:73-08:77, 08:90, 08:92, 08:94, 08:100, 08:103:01:01-08:103:01:02, 08:107-08:108, 08:110-08:112, 08:114-08:116, 08:118, 08:120, 08:123, 08:125-08:126, 08:132, 08:134, 08:140, 08:146, 08:149-08:152, 08:156, 08:158-08:159, 08:161N, 08:166-08:167, 08:169-08:172, 08:179-08:181N, 08:183-08:185, 08:191, 08:195, 08:198, 08:200-08:202, 08:206-08:207, 08:211, 08:214N-08:216, 08:218, 08:222-08:227, 08:229-08:231, 08:233, 08:237-08:240, 08:242, 08:245, 08:247-08:248, 08:256-08:258, 12:09, 12:24, 12:85:01-12:85:02, 12:233, 12:371, 14:02:01:01-14:02:31, 14:02:33-14:05, 14:07N-14:14, 14:17-14:52, 14:54-14:62, 14:64-14:76, 14:78-14:86, 14:88-14:89, 14:91-14:104, 14:106-14:150, 15:08:01-15:08:02, 15:102, 15:143, 15:148, 16:53, 16:68, 16:88, 17:17, 17:65, 18:01:01:01-18:02:05, 18:04-18:18
7 ⁴	290 bp 110 bp 185 bp 235 bp 240 bp	1070 bp	*06:50 *06:07 *06:19 *06:33, 06:104 *06:08	*08:237, 12:53 *04:353
8	240 bp	1070 bp	*06:08	*01:10, 02:05:01-02:05:03, 02:17, 12:119, 14:25, 16:29, 16:50, 17:21, B*07:239, B*14:46, B*14:111, B*40:243
9	165 bp 210 bp 435 bp	1070 bp	*06:09:01-06:09:02, 06:144 *06:23, 06:179 *06:17	*02:22, 02:118, 04:94:01-04:94:02, 05:08, 05:52, 05:89, 05:106:01-05:106:02, 08:27, 08:29, 08:31, 08:160, 08:246, 12:31:01-12:31:02, 12:144, 18:03, B*15:137, B*15:488, B*37:66, B*50:47 *01:04, 01:09:01-01:09:02, 01:244, 12:178, B*46:84 *04:397, 04:432, 04:442, 07:07, 07:09, 07:76:01-07:76:02, 07:315, 07:328, 07:406, 07:559, 07:598, 07:656, 07:914, 18:01:01:01-18:18
10	190 bp	800 bp	*06:10, 06:22	*07:107, 07:224, 12:293, 14:119, 16:31, B*15:193, B*35:283



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11	130 bp	1070 bp	*06:11, 06:122 ^w , 06:124 ^w , 06:147, 06:217, 06:248, 06:252	*03:04:98, 07:01:13, 07:02:128, 07:04:01:01- 07:04:11, 07:04:13-07:04:28, 07:11-07:12, 07:45, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199:01-07:199:02, 07:272, 07:302, 07:323- 07:324, 07:329N, 07:338, 07:354-07:355, 07:358, 07:364-07:365, 07:378, 07:394-07:395, 07:420, 07:426, 07:428, 07:447, 07:459, 07:466-07:467, 07:480, 07:487, 07:501, 07:523, 07:534-07:535, 07:552, 07:562-07:563, 07:569, 07:585-07:586, 07:600:01N-07:600:02N, 07:622, 07:626, 07:651, 07:655, 07:656 ^w , 07:664, 07:672N, 07:674, 07:693, 07:742, 07:751N, 07:780, 07:797N, 07:831, 07:838-07:839N, 07:852, 07:858, 07:868, 07:876, 07:881N, 07:892, 07:895-07:897, 07:901, 07:917, 07:926, 07:941, 07:948, 07:951, 07:953, 07:974Q, 07:1010, 07:1012, 07:1033, 12:02:11, 12:03:09, 16:01:16, B*15:434
	185 bp		*06:22	*07:107, 07:224, 12:293, 14:119, 16:31, B*15:193, B*35:283
12	205 bp	1070 bp	*06:12	
13	155 bp 210 bp	1070 bp	*06:13 *06:59	
14⁷	225 bp 305 bp	1070 bp	*06:55 *06:14, 06:143	*03:32:01:01-03:32:01:02, 03:45, 03:136, 03:297, 04:80, 04:100, 04:110 ^w , 04:178, 04:370, 04:422, 07:10 ^w , 07:43:01, 07:196, 07:568, 15:25, 15:62, 15:169, B*15:357, B*35:178, B*35:282, B*35:316, B*35:570, B*44:505
15	135 bp 360 bp	800 bp	*06:116N *06:15	*03:428, 05:233, 07:709, 16:175
16⁶	235 bp 340 bp	1070 bp	*06:16N *06:21	*02:125, 07:1024, 15:91
17⁵	220 bp	800 bp	*06:24, 06:59	*14:91, 16:93
18	225 bp	1070 bp	*06:26, 06:104	
19^{4,6}	85 bp	800 bp	*06:28, 06:305	*02:14:01-02:14:02, 02:164, 03:67, 04:42:01- 04:42:02, 05:43, 07:20:01-07:20:02, 07:73:01- 07:73:02, 07:172:01-07:172:02, 07:390, 08:37, 12:195:01-12:195:03, 12:217, 14:147, 15:23:01- 15:23:02, 15:138, 15:158, 16:21, 17:20, 18:04, B*08:56:01-08:56:03, B*08:180, B*15:142, B*35:218, B*35:256, B*51:68, B*57:49
20^{4,6}	160 bp 245 bp		*06:32 *06:122, 06:124	*07:559, 07:656, 07:914
	115 bp 235 bp	1070 bp	*06:29 *06:05 ^w , 06:44 ^w , 06:124, 06:138 ^w , 06:198 ^w , 06:217, 06:248	*07:134 *02:14:01 ^w -02:14:02 ^w , 02:107 ^w , 02:164 ^w , 03:39, 03:67, 03:344:01:01-03:344:01:02, 05:43 ^w , 07:39- 07:40, 07:177, 07:210 ^w , 07:238 ^w , 07:328 ^w , 07:335, 07:563, 07:975, 07:993:01-07:993:02, 08:37, 14:147, 15:23:01 ^w -15:23:02 ^w , 15:63 ^w , 15:138 ^w , 15:158 ^w , 16:21, 16:80, B*08:15, B*08:289
	275 bp		*06:27	*01:192, 16:47, 16:128



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21⁶	190 bp 215 bp 380 bp	1070 bp	*06:36, 06:87, 06:330 *06:72 *06:25	*02:113, 02:159, 02:161, 12:45, 12:56, 12:166, 16:61, A*02:817, A*68:76:01-68:76:02 B*57:147, B*57:161 *04:81
22⁶	165 bp	1070 bp	*06:30, 06:86, 06:171:01:01N- 06:171:01:02N, 06:198, 06:204, 06:210, 06:217	*02:02:13, 02:02:29, 03:04:98, 07:181, 07:328, 12:02:11, 12:03:09, 16:01:16, B*15:434
23	210 bp	1070 bp	*06:31, 06:79N	*12:176, 12:333, 14:02:32, 16:04:01:01- 16:04:01:03, 16:04:03-16:04:05, 16:29, 16:33, 16:42, 16:55, 16:61, 16:66, 16:78, 16:82, 16:91, 16:109, 16:124, 16:149-16:150, 16:182, 16:203, B*58:02:02
24	160 bp 210 bp	1070 bp	*06:09:01-06:09:02, 06:34:01-06:34:02, 06:103, 06:107, 06:144, 06:168, 06:179 *06:35	*01:09:01-01:09:02, 01:244, 02:19, 02:22, 02:47, 02:111, 03:21, 03:80:01-03:80:02, 03:142, 03:287:01-03:287:02, 03:413, 03:512, 03:590, 04:94:01-04:94:02, 05:08, 05:52, 05:89, 05:106:01-05:106:02, 07:447, 08:27, 08:29, 08:31, 08:160, 08:246, 12:31:01-12:31:02, 12:144, 12:222, 12:235, 12:298, 18:03, B*13:31, B*13:41, B*13:131, B*13:145, B*13:164, B*15:58, B*15:73:01:01-15:73:01:02, B*15:137, B*15:303, B*15:486, B*15:488, B*35:413, B*37:66, B*39:36, B*46:61, B*50:47, B*54:33, B*54:40, B*55:21, B*56:43 B*37:66
25⁴	85 bp 190 bp	1070 bp	*06:38 *06:118	*01:60, 07:31:01-07:31:02, 07:177, 07:364, 07:514:01-07:514:02, 12:176, 14:17, 17:21
26⁴	120 bp 225 bp	1070 bp	*06:39, 06:128N *06:146	*02:100, 04:205N, 04:288, 15:115N, 15:150
27	190 bp 225 bp	1070 bp	*06:42:01 *06:40	*14:29 *14:63, B*39:79
28⁴	90 bp 215 bp	1070 bp	*06:41 *06:47, 06:123, 06:358	*12:32 *02:57, 07:447, 12:11, B*15:554
29⁴	125 bp 170 bp 210 bp	1070 bp	*06:152N *06:43:01-06:43:02, 06:107, 06:179 *06:47	*02:216N, A*66:39N, B*15:528N *01:09:01-01:09:02, 01:244, 02:19, 02:119, 03:21, 03:80:01-03:80:02, 03:142, 03:287:01-03:287:02, 03:413, 03:512, 03:590, 12:222, 12:235, A*26:79, A*68:114:01-68:114:02, B*15:207, B*15:349:01- 15:349:02 *12:11
30⁴	100 bp 160 bp	1070 bp	*06:44, 06:252 *06:126, 06:171:01:01N- 06:171:01:02N	*07:01:13
31^{4,5}	110 bp 155 bp	1070 bp	*06:128N *06:45	*04:205N, 15:115N *02:85
32⁴	85 bp 195 bp	1070 bp	*06:71 *06:19, 06:66	*02:144



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33⁴	105 bp 240 bp	1070 bp	*06:60 *06:69, 06:93, 06:122, 06:124	*07:427, B*08:138 *07:559, 07:571, 07:656, 07:914, 07:938
34	175 bp 275 bp	1070 bp	*06:74Q *06:20	*15:32Q *01:32:01-01:32:02, 02:56, 03:102, 03:263:01- 03:263:02, 03:514, 04:180:01, 05:217, 07:81, 07:168, 07:450:01-07:450:02, 07:896, 07:959, 08:123, 08:139, 12:50, 14:82, 14:92, 15:126, 16:98, 16:102, 16:110
35	210 bp 235 bp 380 bp	1070 bp	*06:134N *06:65, 06:93 *06:46N	*07:571, 07:938 *02:150N
36⁴	120 bp 195 bp	1070 bp	*06:57 *06:87, 06:330	*02:159, 02:161, 12:45, 12:166, 16:61, A*02:817, A*68:76:01-68:76:02
37⁴	220 bp 115 bp 210 bp	1070 bp	*06:58, 06:81 *06:148, 06:151 *06:49N, 06:101, 06:304	*02:37, 12:251, B*15:417 *12:352, B*15:432 *02:182, 02:209, 04:94:01-04:94:02, 12:10:01- 12:10:03, 18:03, A*02:1025, B*15:27:01:01- 15:27:03, B*15:109, B*15:327, B*15:344, B*15:398
38	130 bp 225 bp 470 bp	1070 bp	*06:70:01-06:70:02, 06:120, 06:132:01, 06:305 *06:211:01:01N- 06:211:01:02N *06:73	*02:02:13, 02:02:29, 02:02:57, 03:04:98, 07:562, 15:16:02, 18:12 *01:200, 02:170, 03:171, 03:211:01, 04:144, 05:93, 08:20, 08:40, 12:109, 15:221
39⁶	270 bp	1070 bp	*06:96, 06:197, 06:313	*01:31, 01:35, 01:107, 01:131, 01:244, 02:58, 04:08, 04:34, 04:85, 04:147, 04:212, 05:27, 05:39, 05:151, 05:184, 08:41, 08:115, 08:138, 08:182, 12:83, 12:106, 12:122, 12:158, 14:20, 14:38, 14:139, 15:15, 15:77, 15:159, 15:195, 16:149, 16:183, 16:202, 17:07, 18:08, B*58:02:01:01- 58:02:02
40⁵	140 bp 260 bp	1070 bp	*06:133 *06:54, 06:220N	*16:52
41	150 bp	1070 bp	*06:03:01-06:03:02, 06:76:01, 06:120, 06:132:01	*02:02:13, 02:02:29, 02:02:57, 03:04:98, 05:01:56, 12:02:11, 12:03:09, 12:03:26, 15:16:02, 16:01:16, 18:09, 18:12, B*13:132, B*15:434, B*35:501, B*51:39
42⁶	165 bp	1070 bp	*06:53:01-06:53:02, 06:86, 06:126	
43	190 bp	1070 bp	*06:28, 06:76:01- 06:76:02, 06:132:01- 06:132:02, 06:305	*02:12, 02:49, 02:55:01-02:55:02, 02:115, 03:15, 03:27, 03:38:01-03:38:02, 03:69, 03:130, 03:136, 03:163, 03:246, 03:274, 03:297, 03:431, 03:461, 04:01:01:01-04:01:01:29, 04:01:01:31-04:01:28, 04:01:30-04:01:137, 04:01:139-04:01:149, 04:03:01:01-04:03:01:04, 04:03:03-04:09N, 04:12 ^w , 04:13:01:01-04:20, 04:23-04:35:02, 04:37-04:54:02, 04:56-04:139, 04:141-04:152, 04:154-04:165, 04:167-04:168, 04:170N-04:191N, 04:193, 04:195-04:209, 04:211-04:213, 04:216- 04:219, 04:221-04:226, 04:228-04:248, 04:250- 04:255N, 04:257-04:277, 04:279N ^w ,



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44⁴	120 bp	1070 bp	*06:77	*03:278, 03:504, 07:714, 07:724, 16:86, A*11:47, A*11:221, A*26:89, B*18:01:20, B*18:72:02, B*37:01:04, B*40:94, B*54:02
	215 bp		*06:100	*03:593
45	375 bp	1070 bp	*06:101, 06:127:01:01-06:127:02, 06:136, 06:144, 06:264, 06:304	*01:05, 01:21, 01:36:01-01:36:02, 01:55, 01:79:01-01:79:02, 01:120, 02:02:01-02:02:03, 02:02:06-02:02:08, 02:02:10-02:02:30, 02:02:32-02:02:48, 02:02:50-02:04, 02:06:01-02:16:02:02, 02:18-02:36:02, 02:38:01N-02:40:02, 02:42-02:56, 02:58-02:61:02, 02:63-02:73, 02:75-02:80, 02:82-02:122, 02:124-02:217, 03:05:01:01-03:05:01:03, 03:13:01:01-03:13:02, 03:25, 03:27, 03:35:01-03:35:02:02, 03:135, 03:167, 03:178, 03:198, 03:267, 03:292, 03:296:01-03:296:02, 03:335, 03:386, 03:407, 03:474, 03:482, 03:494, 03:555, 03:607-03:608, 04:01:01:01-04:01:01:29, 04:01:01:31-04:01:23, 04:01:25-04:01:142, 04:01:144-04:01:149, 04:03:01:01-04:20, 04:23-04:36, 04:38-04:39, 04:41-04:79, 04:81-04:99, 04:101-04:109, 04:111-04:116, 04:118-04:177, 04:179-04:223:02, 04:225N-04:229, 04:231, 04:233N-04:241, 04:243-04:262, 04:264-04:341, 04:343-04:359, 04:361-04:369N, 04:371N-04:385N, 04:387-04:407, 04:409-04:420, 04:423-04:476, 04:478-04:494, 05:01:01:01-05:01:20, 05:01:22-05:01:72, 05:03-05:06, 05:08-05:09:03, 05:11-05:15, 05:17-05:30, 05:32-05:84, 05:86-05:95, 05:97-05:103:02, 05:105-05:106:02, 05:108-05:147, 05:149-05:151, 05:153N-05:174, 05:176-05:213N, 05:215-05:240, 05:242-05:244N, 05:246-05:277, 07:01:01:01-07:01:02:14, 07:01:04-07:01:10, 07:01:12-07:01:27, 07:01:29-07:02:97, 07:02:99-07:02:126, 07:02:128-07:02:137, 07:02:139-07:03, 07:05-07:06:01:12, 07:06:03-07:09, 07:13:01:01-07:30, 07:32N-07:33N, 07:35-07:42, 07:44, 07:46-07:62, 07:64-07:100, 07:102-07:138, 07:140:01-07:141:03, 07:143-07:176, 07:178-07:180, 07:182-07:183, 07:185-07:194, 07:197-07:271, 07:273-07:294,



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12:181, 12:188, 12:193, 12:196, 12:198, 12:204,
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12:247, 12:250, 12:252, 12:255, 12:261, 12:263,
12:268, 12:275, 12:279-12:281, 12:285, 12:287,
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12:308, 12:315, 12:327N, 12:329N, 12:336,
12:338, 12:351Q, 12:359, 12:362-12:363, 12:371,
14:09, 14:28:02, 14:150, 15:22, 15:65, 15:72,
15:190, 15:246, 16:06-16:07:02, 16:117,
17:16:01-17:16:02, 18:01:01:01-18:18



101.614-12 – including *Taq* polymerase
101.614-12u – without *Taq* polymerase

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Lot-specific information

46 ⁴	95 bp	1070 bp	*06:30, 06:204, 06:210	*01:17, 01:21, 01:128, 01:152, 01:157, 02:12, 02:55:01-02:55:02, 03:27, 03:38:01-03:38:02, 03:130, 03:163, 03:246, 03:431, 04:33, 04:107, 04:172, 04:231, 05:46:01:01-05:46:01:02, 07:07, 07:16, 07:51, 07:181, 07:367, 07:598, 07:723, 07:914, 08:05, 08:21, 08:25, 12:02:01-12:04:03, 12:06-12:08, 12:10:01-12:20, 12:22-12:27, 12:29- 12:32, 12:34-12:48, 12:50-12:57:02, 12:59-12:62, 12:64-12:97, 12:99:01-12:107, 12:109-12:131, 12:133-12:134, 12:136-12:145, 12:147-12:187, 12:189-12:251, 12:253-12:286, 12:288-12:298, 12:300, 12:302-12:324N, 12:326-12:333, 12:335- 12:376, 14:04, 14:73, 14:77, 14:128, 14:140, 15:03, 15:16:01-15:16:02, 16:15:02, 16:25, 16:189, 16:201, 17:01:01:02-17:01:14, 17:01:17- 17:10, 17:12-17:14, 17:16:01-17:25, 17:27N- 17:39, 17:41-17:69, B*07:13, B*67:02:01:01- 67:02:01:02
47 ⁶	220 bp	1070 bp	*06:83, 06:146	
48 ⁶	370 bp	1070 bp	*06:106:01- 06:106:02	*02:61:01, 03:07:01:01-03:07:02, 03:15, 03:45, 03:130, 03:140:01:01-03:140:01:02, 03:163, 03:243, 03:268, 03:297, 03:461, 04:80, 04:100, 05:05:01-05:05:02, 05:135, 05:147-05:148, 15:26, 15:69, 15:254, 17:29
49	195 bp 250 bp 280 bp	1070 bp	*06:175N *06:220N *06:129	*05:16, 05:85, 05:107, 05:241, 07:364, 08:12:01:01-08:12:01:02, B*14:32
50	160 bp 195 bp	1070 bp	*06:158 *06:175N	
51	235 bp	1070 bp	*06:05, 06:44, 06:124 ^w , 06:138, 06:198, 06:217 ^w , 06:248 ^w	*02:14:01-02:14:02, 02:107, 02:164, 03:39 ^w , 03:67 ^w , 03:344:01:01 ^w -03:344:01:02 ^w , 05:43, 07:39 ^w -07:40 ^w , 07:177 ^w , 07:210, 07:238, 07:328, 07:335 ^w , 07:563 ^w , 07:975 ^w , 07:993:01 ^w - 07:993:02 ^w , 08:37 ^w , 14:147 ^w , 15:23:01-15:23:02, 15:63, 15:138, 15:158, 16:21 ^w , 16:80 ^w , B*08:15^w, B*08:229, B*08:289
52 ⁴	120 bp 210 bp	1070 bp	*06:91, 06:151 *06:47, 06:136, 06:142	*02:11, B*15:432 *02:17, 02:77, 07:138, 07:940, 12:11, 12:118, 12:156, 14:16, B*15:32:01-15:32:02, B*15:299, B*15:583
53	130 bp	1070 bp	*06:91, 06:140, 06:152N	*02:11, 02:216N, A*66:39N, B*15:528N
54 ⁴	85 bp	1070 bp	*06:139	
55 ⁴	80 bp	1070 bp	*06:02:01:01- 06:02:01:93, 06:02:03-06:10, 06:12-06:29, 06:31- 06:52, 06:54-06:60, 06:62-06:64, 06:66- 06:68, 06:70:01- 06:92, 06:94-06:121, 06:123, 06:125- 06:146,	*02:49, 02:75, 03:15, 03:45, 03:297, 04:01:01:01- 04:01:01:29, 04:01:01:31-04:01:51, 04:01:53- 04:01:149, 04:03:01:01-04:03:01:04, 04:03:03- 04:10, 04:13:01:01-04:20, 04:23-04:26, 04:28, 04:30-04:32, 04:34-04:35:02, 04:37-04:51, 04:53- 04:54:02, 04:56-04:106, 04:108-04:115N, 04:117- 04:168, 04:170N-04:171, 04:173N-04:213, 04:215N-04:226, 04:228-04:230, 04:232-04:277, 04:279N-04:282, 04:284-04:404, 04:406-04:413, 04:415-04:448, 04:450-04:472, 04:474-04:494,



101.614-12 – including *Taq* polymerase
101.614-12u – without *Taq* polymerase

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Lot-specific information

			06:148-06:182, 06:184-06:197, 06:199-06:203, 06:205-06:209:02, 06:211:01:01N- 06:216, 06:218- 06:234, 06:236- 06:246, 06:249- 06:251, 06:253- 06:292, 06:294- 06:302, 06:304- 06:362N	05:25, 05:42, 07:09, 07:49, 07:76:01-07:76:02, 07:210, 07:238, 07:247, 07:315, 07:403, 07:406, 12:146, 14:49, 14:64, 15:62, 15:169, 16:46, 17:11, 18:01:01:01-18:18, B*35:570
56^{4,6}	255 bp	800 bp	*06:37	*01:20, 02:162, 07:505
57⁴	110 bp 265 bp	1070 bp	*06:90 *06:208N	*01:108, 14:123, 16:28, 16:156
58	255 bp	1070 bp	*06:200Q, 06:208N	
59	245 bp	1070 bp	*06:215N	
60⁴	90 bp	1070 bp	*06:134N	*04:225N, 15:95N
61	160 bp	1070 bp	*06:115	*04:119
62	225 bp 260 bp	1070 bp	*06:211:01:01N- 06:211:01:02N *06:111	*01:183, 03:354, 03:533, 03:561, 05:108, 14:131
63	225 bp	1070 bp	*06:42:02	
64⁸	-	-	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-C*06 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.

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

⁵Primer mixes 17, 31 and 40 have tendencies to give rise to primer oligomer formation.

⁶Primer mixes 16, 19, 20, 21, 22, 39, 42, 47, 48 and 56 may have tendencies of unspecific amplification.



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⁷Primer mix 14 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C*06 resolution primer mixes in the C*03 alleles.

⁸Primer mix 64 contains a negative control, which will amplify a 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.



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Lot-specific information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	240	220	135	250	160 220	250 290	110 185 235	240	165 210 435	190	130 185	205
Length of int. pos. control ¹	800	800	1070	1070	800	1070	1070	1070	1070	800	1070	1070
5'-primer(s) ²	28 5'-TCA 3'	361 5'-AgT 3'	105 5'-gCT 3'	2 nd I 5'-CCA 3'	113 5'-CCA 3'	2 nd I 5'-CCA 3'	107 5'-CgA 3'	361 5'-AgT 3'	47 5'-Agg 3'	142 5'-TCC 3'	213 5'-CCC 3'	529 5'-AgA 3'
		361 5'-AgT 3'	113 5'-CCA 3'		176 5'-gCA 3'		109 5'-TgA 3'		368 5'-gTg 3'	419 5'-gTC 3'	419 5'-gTC 3'	
		361 5'-AAT 3'			368 5'-gTg 3'		157 5'-TgA 3'		412 5'-ATA 3'			
					420 5'-TAT 3'		232 5'-AgA 3'					
3'-primer(s) ³	97 5'-gTC 3'	538 5'-CCA 3'	201 5'-CTC 3'	539 5'-TCA 3'	302 5'-ggT 3'	538 5'-CCg 3'	302 5'-ggT 3'	559 5'-CTC 3'	312 5'-AgT 3'	302 5'-ggT 3'	302 5'-ggC 3'	3 rd I 5'-CTC 3'
					538 5'-CCA 3'	578 5'-TgT 3'			538 5'-CCA 3'	565 5'-CAT 3'	565 5'-CAT 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	155 210	225 305	135 360	235 340	220	225	85 160 245	115 235 275	190 215 380	165	210	160 210
Length of int. pos. control ¹	1070	1070	800	1070	800	1070	800	1070	1070	1070	1070	1070
5'-primer(s) ²	361 5'-AgT 3'	341 5'-ggA 3'	376 5'-gCT 3'	397 5'-gCT 3'	361 5'-AgT 3'	109 5'-TgA 3'	97 5'-TCg 3'	97 5'-TCg 3'	28 5'-TCA 3'	213 5'-CCC 3'	361 5'-AgT 3'	368 5'-gTC 3'
		894 5'-TgC 3'	601 5'-Agg 3'	501 5'-..C 3'		122 5'-CCT 3'		361 5'-AgT 3'	362 5'-ggT 3'			419 5'-gTT 3'
									385 5'-ggT 3'			419 5'-gTA 3'
									388 5'-CCA 3'			420 5'-TAT 3'
3'-primer(s) ³	475 5'-ggT 3'	353 5'-TgA 3'	3 rd I 5'-CTC 3'	3 rd I 5'-CTC 3'	532 5'-CTg 3'	302 5'-ggT 3'	142 5'-TgC 3'	172 5'-CAT 3'	239 5'-gCT 3'	327 5'-TTT 3'	527 5'-CCg 3'	538 5'-CCA 3'
	532 5'-CTg 3'	353 5'-TgA 3'			547 5'-gTg 3'		214 5'-CCA 3'	289 5'-AgT 3'	538 5'-CCA 3'	339 5'-TCg 3'	540 5'-CTT 3'	
		956 5'-CAg 3'					302 5'-ggC 3'	595 5'-CCA 3'		341 5'-Cgg 3'		
Well No.	13	14	15	16	17	18	19	20	21	22	23	24



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Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	85	120	190	90	125	100	110	85	105	175	210	120
PCR product	190	225	225	215	170	160	155	195	240	275	235	195
					210						380	220
Length of int.	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
pos. control ¹												
5'-primer(s) ²	361 5' -AgT 3'	211 5' -AgT 3'	361 5' -AgT 3'	355 5' -CCT 3'	368 5' -gTC 3'	213 5' -CCC 3'	187 5' -gCT 3'	157 5' -TgA 3'	97 5' -TCg 3'	463 5' -TgA 3'	97 5' -TCg 3'	359 5' -CCg 3'
		232 5' -AgT 3'		368 5' -gTC 3'	406 5' -gCC 3'		232 5' -AgT 3'	257 5' -CCC 3'		562 5' -Cgg 3'	742 5' -ACT 3'	366 5' -ATA 3'
		3 rd I		490	406			361				385
		5' -Cgg 3'		5' -CgT 3'	5' -gCA 3'			5' -AgT 3'				5' -ggT 3'
					419							458
					5' -gTA 3'							5' -ggg 3'
					454							
					5' -ACT 3'							
3'-primer(s) ³	404 5' -CAA 3'	302 5' -ggT 3'	511 5' -CCg 3'	538 5' -CCA 3'	538 5' -CCA 3'	270 5' -TAg 3'	302 5' -ggT 3'	302 5' -ggT 3'	160 5' -gTg 3'	3 rd I 5' -CTC 3'	265 5' -CTA 3'	538 5' -CCA 3'
	512 5' -CCA 3'	776 5' -CTC 3'	544 5' -ggT 3'			327 5' -TTT 3'		523 5' -ACA 3'	295 5' -TCC 3'		288 5' -gCA 3'	
						337 5' -CTT 3'			299 5' -TCT 3'		295 5' -TCC 3'	
									302 5' -ggC 3'		956 5' -CAg 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.	115	130	270	140	150	165	190	120	375	95	220	370
PCR product	210	225		260				215				
		470										
Length of int.	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
pos. control ¹												
5'-primer(s) ²	368 5' -gTT 3'	112 5' -CCT 3'	2 nd I 5' -CCA 3'	361 5' -AgT 3'	97 5' -TCT 3'	213 5' -CCC 3'	142 5' -TCg 3'	97 5' -TCC 3'	361 5' -AgA 3'	289 5' -Agg 3'	56 5' -CCA 3'	302 5' -gAA 3'
	375 5' -TgA 3'	134 5' -CCA 3'			112 5' -CCT 3'			671 5' -CAA 3'			3 rd I 5' -Cgg 3'	
	464 5' -gCC 3'	652 5' -CCA 3'										
	466 5' -gCC 3'	894 5' -TgA 3'										
3'-primer(s) ³	538 5' -CCA 3'	213 5' -Cgg 3'	560 5' -ACA 3'	461 5' -gCT 3'	213 5' -Cgg 3'	337 5' -CTT 3'	289 5' -AgC 3'	175 5' -CCg 3'	3 rd I 5' -CTC 3'	341 5' -Cgg 3'	97 5' -gTC 3'	379 5' -CAC 3'
		956 5' -CAg 3'		571 5' -CCA 3'		339 5' -TCg 3'	289 5' -AgC 3'	846 5' -CAC 3'			776 5' -CTC 3'	
				594 5' -CCC 3'		341 5' -ggT 3'						
						343 5' -T 3'						
Well No.	37	38	39	40	41	42	43	44	45	46	47	48



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Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60	61
Length of spec.	195	160	235	120	130	85	80	255	110	255	245	90	160
PCR product	250	195		210					265				
	280												
Length of int. pos. control ¹	1070	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070
5'-primer(s) ²	361	361	97	368	449	376	302	479	361	361	361	265	194
	5' -AgT 3'	5' -AgT 3'	5' -TCg 3'	5' -gTC 3'	5' -CCC 3'	5' -gCA 3'	5' -gAA 3'	5' -CgT 3'	5' -AgT 3'	5' -AgT 3'	5' -AgT 3'	5' -CAT 3'	5' -Cgg 3'
				368	449		302						
				5' -gTT 3'	5' -CCA 3'		5' -AAA 3'						
				449	454								
				5' -CCA 3'	5' -ACT 3'								
				466									
				5' -gCC 3'									
3'-primer(s) ³	513	481	289	538	538	419	341	3 rd I	430	563	566	312	312
	5' -TCT 3'	5' -gTA 3'	5' -AgT 3'	5' -CCA 3'	5' -CCA 3'	5' -Cgg 3'	5' -CgT 3'	5' -CTC 3'	5' -gCg 3'	5' -CgA 3'	5' -CA 3'	5' -AgT 3'	5' -AgT 3'
	571	513							585	585			
	5' -CCA 3'	5' -TCT 3'							5' -AgC 3'	5' -AgC 3'			
	601												
	5' -CTT 3'												
Well No.	49	50	51	52	53	54	55	56	57	58	59	60	61
Well No.	62	63											
Length of spec.	225	225											
PCR product	260												
Length of int. pos. control ¹	1070	1070											
5'-primer(s) ²	862	511											
	5' -ACA 3'	5' -AgA 3'											
	894												
	5' -TgA 3'												
3'-primer(s) ³	956	3 rd I											
	5' -CAg 3'	5' -CTC 3'											
Well No.	62	63											

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.



101.614-12 – including *Taq* polymerase
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Lot No.: **0S3**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-C*06 SSP subtyping kit ²																				
					Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:	202131001	202131002	202131003	202131004	202131005	202131006	202131007	202131008	202131009	202131010	202131011	202131012	202131013	202131014	202131015	202245216
	IHWC cell line ¹		C*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*07:01	*15:05	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*03:04	*04:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*06:02		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*03:04	*07:02	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*05:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*01:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*06:02		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*01:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*01:02	*03:04	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*03:04		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:03	*07:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*01:02	*07:05	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*03:04		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*03:03		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*01:02	*15:02	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*08:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:04	*15:29	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-
28	9320	BEL5GB	*05:01	*16:01	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*17:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*05:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*17:01	*17:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*03:04		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*05:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*03:03	*04:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*03:03		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*01:02	*06:02	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*08:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*01:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*01:02	*08:01	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*12:03		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*06:02	*17:01	+	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*07:04	*15:02	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-
48	9303	TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.614-12 – including *Taq* polymerase
101.614-12u – without *Taq* polymerase

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Lot No.: 0S3

Lot-specific information

CELL LINE VALIDATION SHEET																																
HLA-C*06 SSP subtyping kit ²																																
					Well																											
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32												
				Prod. No.:	202131017	202131018	202131019	202131020	202131021	202131022	202131023	202131024	202131025	202131026	202245227	202131028	202131029	202131030	202131031	202131032												
	IHWC cell line ¹		C*																													
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
2	9280	LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
3	9011	E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
4	9275	GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
5	9009	KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
6	9353	SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
7	9020	QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
9	9026	YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
10	9107	LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
11	9051	PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
12	9052	DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
13	9004	JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
14	9071	OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
15	9075	DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
16	9037	SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
17	9282	CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
18	9257	32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
19	9038	BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
20	9059	SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
21	9064	AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
22	9056	KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
23	9124	IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
24	9035	JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
25	9049	IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
26	9285	WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
27	9191	CH1007	*07:04	*15:29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
28	9320	BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
29	9050	MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
30	9021	RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
31	9019	DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
32	9297	HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
33	9098	MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
34	9104	DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
35	9302	SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
36	9024	KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
38	9099	LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
39	9315	CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
40	9134	WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
41	9055	H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
42	9066	TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
43	9076	T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
44	9057	TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
45	9239	SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
47	9045	TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
48	9303	TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												



101.614-12 – including *Taq* polymerase
101.614-12u – without *Taq* polymerase

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CELL LINE VALIDATION SHEET																												
HLA-C*06 SSP subtyping kit ²																												
					Well																							
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48								
				Prod. No.:	202131033	202131034	202131035	202131036	202131037	202131038	202131039	202131040	202131041	202131042	202131043	202131044	202131045	202131046	202131047	201889548								
	IHC cell line ¹		C*																									
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-								
2	9280	LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-								
3	9011	E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	+	-	+	+	-	-							
4	9275	GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-							
5	9009	KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
6	9353	SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
7	9020	QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-							
9	9026	YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-							
10	9107	LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
11	9051	PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
12	9052	DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
13	9004	JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
14	9071	OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
15	9075	DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
16	9037	SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
17	9282	CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
18	9257	32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
19	9038	BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
20	9059	SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
21	9064	AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
22	9056	KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-							
23	9124	IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
24	9035	JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-							
25	9049	IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
26	9285	WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
27	9191	CH1007	*07:04	*15:29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
28	9320	BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
29	9050	MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
30	9021	RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-							
31	9019	DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
32	9297	HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-							
33	9098	MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
34	9104	DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-							
35	9302	SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
36	9024	KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-							
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
38	9099	LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
39	9315	CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
40	9134	WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
41	9055	H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
42	9066	TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
43	9076	T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
44	9057	TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-							
45	9239	SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-							
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-							
47	9045	TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
48	9303	TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-							



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CELL LINE VALIDATION SHEET																											
HLA-C*06 SSP subtyping kit ²																											
					Well																						
					49	50	51	52	53	54	55	56	57	58	59	60	61	62	63								
				Prod. No.:	202131049	202131050	202131051	202131052	202131053	202131054	202131055	202245256	202131057	202131058	202131059	202131060	202131061	202131062	202245263								
	IHCW cell line ¹		C*																								
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2	9280	LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
3	9011	E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
4	9275	GU373	*03:04	*04:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-								
5	9009	KAS011	*06:02		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-								
6	9353	SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
7	9020	QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
8	9025	DEU	*04:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-								
9	9026	YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
10	9107	LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
11	9051	PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
12	9052	DBB	*06:02		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-								
13	9004	JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
14	9071	OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
15	9075	DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
16	9037	SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
17	9282	CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
18	9257	32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
19	9038	BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
20	9059	SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
21	9064	AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
22	9056	KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
23	9124	IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
24	9035	JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
25	9049	IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
26	9285	WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
27	9191	CH1007	*07:04	*15:29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
28	9320	BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
29	9050	MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
30	9021	RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
31	9019	DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
32	9297	HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
33	9098	MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
34	9104	DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
35	9302	SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
36	9024	KT17	*03:03	*04:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-								
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
38	9099	LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
39	9315	CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
40	9134	WHONP199	*01:02	*06:02	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-								
41	9055	H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
42	9066	TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
43	9076	T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
44	9057	TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
45	9239	SHJO	*06:02	*17:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-								
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
47	9045	TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
48	9303	TER-ND	*04:01	*16:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-								

101.614-12 – including *Taq* polymerase
101.614-12u – without *Taq* polymerase

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

Lot No.: 0S3

Lot-specific information

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

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

No DNAs carrying the alleles to be amplified by primer solutions 7, 8, 10, 12 to 22, 24 to 36, 38 to 42, 44, 47 to 54 and 56 to 63 were available.

The specificity of the primers in primer solutions 8, 10, 14, 16, 19 to 22, 24 to 30, 32, 34, 35, 38, 39, 41, 42, 44, 47 to 49, 51 and 52 were tested by separately adding one, two or three 5'-primers, respectively one, two or three 3'-primers.

In primer solutions 13, 17, 33, 40, 50 and 57 to 59 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 7, 12, 15, 18, 31, 36, 53, 54, 56, and 60 to 63 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solutions 2, 3, 5, 10, 14, 16, 21, 24, 26, 28, 29, 32, 34, 35, 37, 38, 41, 44, 47, 52 and 55 one or more 5'-primers were not possible to test.

In primer solutions 6, 10, 11, 19 to 23, 25 to 27, 30, 32, 35, 42, 47 and 49 one or more 3'-primers were not possible to test.

In addition, one or more 3' -and/or 5' primers in primer solutions 5, 9 and 11 were tested by separately adding one 5'-primer and/or one 3'-primer.



101.614-12 – including *Taq* polymerase
101.614-12u – without *Taq* polymerase

Visit www.caredx.com for
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Lot No.: **0S3**

Lot-specific information

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